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ETN-24-SUPER-SH

Wall mount, 24VAC thermostat, Cool/Heat or Cool Only configuration, 1 or 3 fan speeds

The ETN-24-SUPER-SH thermostat is a fully featured, stylish thermostat suitable for light commercial, residential or apartment applications.

It can control a large variety of HVAC systems with different configurations. It offers both Cooling Only or Cool & Heat control systems. It also has selectable number of heating and cooling stages and multiple Fan Speeds.

The ETN-24-SUPER-SH is an attractive thermostat, with a large, easy to read display.

Features

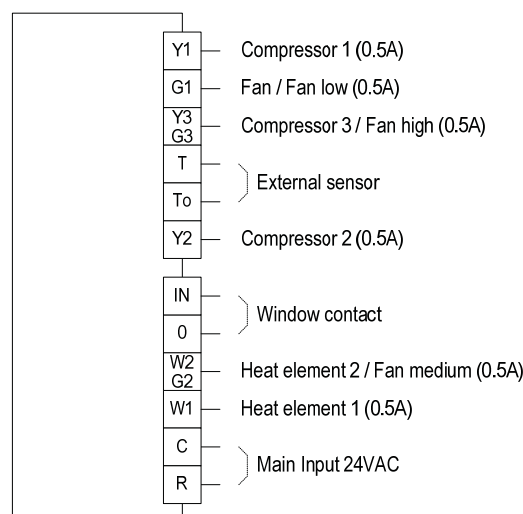
- Wall mount, 24VAC thermostat
- Selectable Configuration: Cool/Heat or Cool only
- 1 or 3 Fan speeds
- Input – Normally open – Voltage free with 2 options selectable:
 - * Option A – thermostat will turn 'OFF'
 - * Option B – thermostat will change set point (Economy Mode)
- External Temperature Sensor - Option
- Energy saving – cost efficient, Environmental Friendly algorithms and logic
- Fault input - To be used with door switch, window contact
- Selectable display – ambient temperature or set temperature only
- Offset – for temperature reading adjustment
- Set point limits - password protected
- Lock buttons – password protected



Models

Model	Cool	Heat	Speeds
ETN-24-C1-1S-SH	1	N/A	1
ETN-24-C1-3S-SH	1	N/A	3
ETN-24-C2-1S-SH	2	N/A	1
ETN-24-C2-3S-SH	2	N/A	3
ETN-24-C3-1S-SH	3	N/A	1
ETN-24-HC11-1S-SH	1	1	1
ETN-24-HC11-3S-SH	1	1	3
ETN-24-HC12-1S-SH	2	1	1
ETN-24-HC12-3S-SH	2	1	3
ETN-24-HC22-1S-SH	2	2	1
ETN-24-HC23-1S-SH	3	2	1

Wiring diagram



ETN-24-SUPER-SI

Wall-mount, 24VAC thermostat, Cool & Heat or Heat Pump- selectable, multiple heating & cooling stages, Auto-Fan selectable, IR option

The ETN-24-SUPER-SI thermostat is a fully featured, stylish thermostat, suitable for light commercial, residential or apartment applications.

It can control a large variety of HVAC systems with different configurations; both Cool & Heat or Heat Pump systems and has a selectable number of heating and cooling stages.

The ETN-24-SUPER-SI is an attractive, wall mount thermostat with a large, easy to read display.



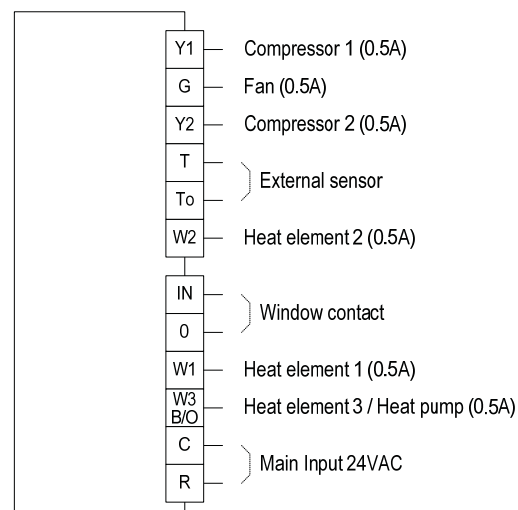
Features

- 24VAC thermostat
- Selectable Configuration: Cool/Heat or Heat Pump
- Input – Normally open – Voltage free. To be used with door switch, window contact, etc. 2 options selectable:
 - * Option A – thermostat will turn 'OFF'
 - * Option B – thermostat will change set point (Economy Mode)
- Energy saving – cost efficient, environmental friendly thermostat
- Selectable display – ambient temperature or set temperature only
- Offset – for temperature reading adjustment
- Set point limits password protected
- External Temperature Sensor - Option
- Lock buttons – password protected
- Emergency heat selectable in heat pump mode
- IR option – for hand held remote control

Models

Model	Cool	Heat	Speeds
ETN-24-HC11-1S-SI	1	1	1
ETN-24-HC22-1S-SI	2	2	1
ETN-24-HC32-1S-SI	2	3	1
ETN-24-HP21-1S-SI	1	2	1
ETN-24-HP32-1S-SI	2	3	1
ETN-24-HP42-1S-SI	2	4	1

Wiring diagram



ETN-24-SUPER-SF

Wall mount, 24VAC thermostat, H/C or Heat Pump configuration, with Filter counter

The ETN-24-SUPER-SF thermostat is a fully featured, stylish thermostat suitable for light commercial, residential or apartment applications.

It can control a large variety of HVAC systems with different configurations. It is applicable both for Cool/Heat or Heat Pump systems and has a selectable number of heating and cooling stages.

The ETN-24-SUPER-SF is an attractive, wall mount thermostat, with large, easy to read display.

Features

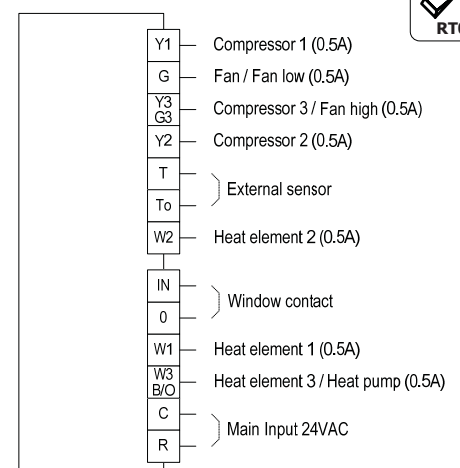
- Wall mount, 24VAC thermostat
- Cool/Heat or Heat Pump – selectable by choosing DIP switch position
- Fault Input – Normally open – Voltage free- indication on display only. Turn system Off or Economy - selectable
- Selectable display – ambient temperature or set temperature only – selectable by choosing DIP switch position
- Offset – for temperature reading adjustment
- Set point limits - password protected
- Energy saving – cost efficient, environmental friendly thermostat
- Filter counter in hours- range: 0-900 (adjustable)
- External Temperature Sensor- option
- Lock – Unlock buttons function
- Emergency heat selectable in heat pump mode
- Multiple heating and cooling stages
- IR remote control- option

Models

Model	Cooling Stages	Heating Stages	Fan Speeds	Window Contact
ETN-HC11-1S	1	1	1	+
ETN-HC22-1S	2	2	1	+
ETN-HC32-1S	2	3	1	+
ETN-HP21-1S	1	2	1	+
ETN-HP32-1S	2	3	1	+
ETN-HP42-1S	2	4	1	+



Wiring diagram



FMH-220-HP11-3S-IR

Flush Mount thermostat, 220VAC, Heat & Cool outputs (Heat Pump configuration) with 3 fan speeds and IR

The FMH-220-HP11-3S-IR is a fully featured, flush-mount thermostat suitable for commercial or residential applications to control a large variety of HVAC systems.

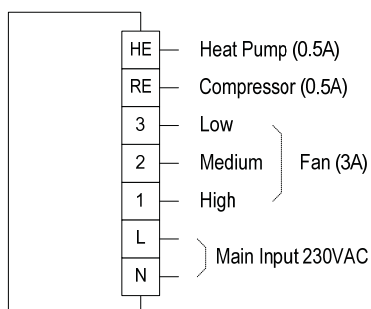
This easy to operate thermostat has one output for Cool and one output for Heat Pump (On/Off), 3 fan speeds and IR option. The FMH-220-HP11-3S-IR is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display.



Features

- Flush mount, 230VAC Thermostat
- Heat Pump configuration
- 3 Fan Speeds
- Auto fan- selectable
- Auto speed - selectable
- Remote Control – option
- Energy saving – cost efficient, environmental friendly thermostat
- Daily digital timer – optimal when you are a way or asleep (from Remote Control)
- 3-minute compressor delay
- Temperature offset – adjustable

Wiring diagram



FMH-24-C2-3S-IR

Flush Mount Thermostat, 24VAC, Cool only - two outputs for Cool, 3 fan speeds and IR option

The FMH-24-C2-3S-IR is a fully featured, flush-mount thermostat suitable for commercial or residential applications to control a large variety of HVAC systems.

It is targeted for Cool and Fan Only applications and has

2 outputs for Cool and 3 fan speeds.

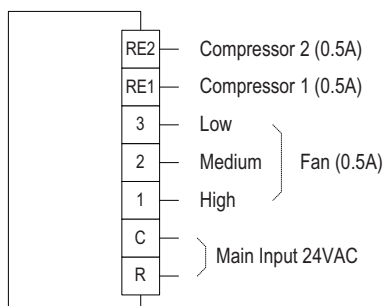
The FMH-24-C2-3S-IR is a smart looking thermostat with large, easy to read LCD display and a simple user interface.

Features

- Flush mount, 24VAC thermostat
- Cool Only Thermostat, with 2 Cooling stages
- Fan modes: Fan on / Auto fan / Auto speed
- 2 outputs for Cool
- 3 Fan Speeds
- Auto fan - selectable
- Auto speed - selectable
- Remote Control – optional
- Energy saving – operates up to 2 compressors, if needed by smart logic algorithms
- 3-minute compressor delay (to protect the compressor)
- Automatic temperature offset
- Daily, digital Timer from Remote control – optimal when you are asleep or away



Wiring diagram



FMH-220-HC11-3S-IR

Flush Mount, 220VAC thermostat with Heat and Cool outputs, 3 fan speeds and IR option

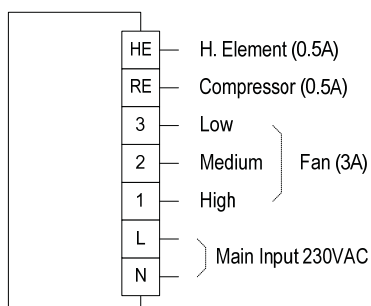
The FMH-220-HC11-3S-IR is a fully featured, flush-mount thermostat suitable for commercial or residential applications to control a large variety of HVAC systems. This easy to operate thermostat has one output for Cool and one output for Heat Element (On/Off), 3 fan speeds and IR option. The FMH-220-HC11-3S-IR is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display.

Features

- Flush mount, 230VAC thermostat
- 2 separate outputs for Cool and Heat
- 3 Fan Speeds
- Remote Control – option
- Temperature offset – adjustable
- Daily, digital Timer from RC – optimal when you are asleep or away
- Energy saving – cost efficient, environmental friendly thermostat
- 3 minutes compressor delay (to protect the compressor)
- Auto fan – selectable
- Auto speed – selectable
- Type of heater (electric heater or oil heater) – selectable



Wiring diagram



FMT-24-SUPER

24VAC, Flush-mount thermostat, with up to 3 stages for Heat and 2 stages for Cool

The FMT24-SUPER thermostat is a flush-mount, stylish thermostat for commercial or residential applications. It has both Heat/Cool and Heat Pump configurations and multiple cooling and heating stages. It offers useful features for cold locations, such as Low Temperature Alarm and Emergency Heat.

Overall, the FMT24-SUPER is a sleek, attractive thermostat and a convenient solution for many HVAC systems.

Features

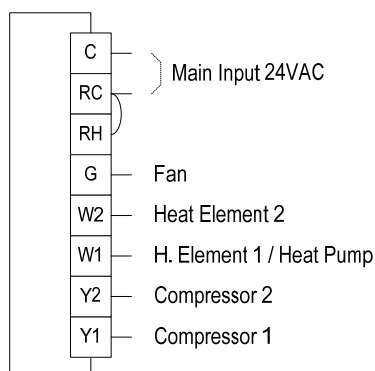
- Main input- 24VAC
- User Selectable applications:
 - * Heat/Cool or Heat Pump
 - * Electric Heat or Oil/Gas
 - * Heat Pump in Heat or Heat Pump in Cool
- C or F temp. scale display
- Offset – for temp. reading adjustment $\pm 6^{\circ}\text{C}/\text{F}$
- Temp. limits for Cool & Heat - $10..30^{\circ}\text{C}$ ($50..88^{\circ}\text{F}$)
- Economy mode
- Emergency Heat – compressor stops working; only Heat Element will be used for Heating
- Low temp. alarm indication – when less than 6°C (45°F)
- With/without compressor delay
- IR remote control- option



Models

Model	Cooling Stages	Heating Stages	Fan Speeds
FMT-24-HC11-1S	1	1	1
FMT-24-HC22-1S	2	2	1
FMT-24-HP21-1S	1	2	1
FMT-24-HP32-1S	2	3	1
FMT-24-SUPER	ALL-IN-ONE	ALL-IN-ONE	1

Wiring diagram



ERT-208

**Wall mount, 230VAC thermostat,
with 2 compressors - Heat-Pump configuration,
1 fan speed, 12-hour timer and a Remote Control
option.**

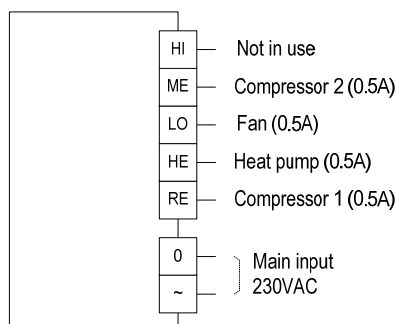
The ERT-208 is a fully featured, stylish thermostat suitable for Central Mini-Duct or Split-Unit A/C systems. It has 2 compressors – heat pump configuration with 1 fan speed, 12-hour timer and a remote control option. The ERT-208 is an easy to use thermostat, with a large, easy to read LCD display.

Features

- Wall-mount, 230VAC thermostat
- 2 compressors, Heat Pump configuration
- 1 fan speed
- Auto Fan
- 3 minute compressor delay for compressor protection
- Display of Ambient temperature / Set temperature
- Energy saving – cost efficient, environmental friendly thermostat
- Temperature set-point limits
- 12-hour Timer - automatically turns on/off unit within 12-hours
- Option for a Remote Control – (with 24-hour timer)
- Large & easy to read LCD display
- Comfortable silicon rubber buttons



Wiring diagram



ERT-209

**Wall mount, 230VAC Thermostat,
with 2 compressors for Cooling and 2 Heat Elements,
Timer and IR (option)**

The ERT-209 is a fully featured thermostat suitable for Central Mini-Duct or Split-Unit AC systems.

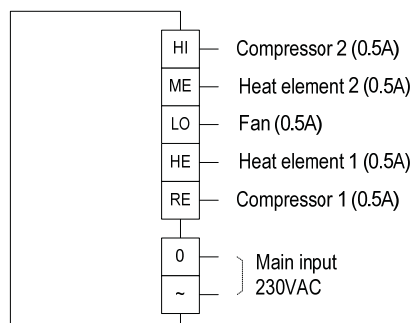
It has outputs for 2 compressors and 2 Heat Elements – H/C configuration, 1 fan speed, 12-hour timer and a remote control option. The ERT-209 is an easy to use thermostat, with a large, easy to read display.



Features

- Wall-mount, 230VAC thermostat
- 2 compressors for cooling, 2 heat elements for heating
- 1 fan speed
- 12-hour Timer - automatically turns on/off within 12-hours
- Remote Control - optional
- Energy saving – cost efficient, environmental friendly thermostat
- 3 minute delay for compressor protection
- Heat Off Fan delay
- Ambient temperature display – selectable
- Large & easy to read LCD display

Wiring diagram



ERT100-LCD-IR

Wall mount, 230VAC Thermostat, Heat-Pump configuration, 12-hour timer and an option for a Remote Control Unit.

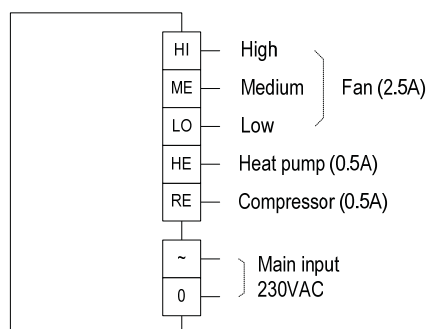
The ERT100-LCD-IR is a fully featured thermostat suitable for central mini-duct or split-unit AC systems. It has heat pump configuration, 3 fan speeds, 12-hour timer and a remote control option.

The ERT100-LCD-IR is an easy to use thermostat with a clear, easy to read LCD display.

Features

- Wall-mount, 230VAC thermostat
- 1 compressor for both Cool and Heat (Heat Pump)
- 3 fan speeds
- Auto Fan - selectable
- 3 minute compressor delay
- 12-hour Timer - automatically turns the unit on/off within 12-hour
- Energy saving – cost efficient, Environmental Friendly thermostat
- Remote Control - optional
- Large & easy to read LCD display
- Comfortable silicon rubber buttons
- Ambient temperature display (display/hide) - optional

Wiring diagram



TED-220-HP11-3S

Wall mount, 220VAC thermostat, with 2 outputs for Cool & Heat (Heat Pump), 3 fan speeds and LCD display

The TED-220-HP11-3S thermostat is suitable for commercial or residential applications to control a large variety of HVAC systems, including fan coils.

This mechanical thermostat offers Cool and Heat outputs as well as 3 fan speeds, making the TED-220-HP11-3S the perfect solution for basic and simple climate control.

Features

- Wall mount, 220VAC main supply
- 2 Outputs for Cool and Heat (HP)
- 3 Fan Speeds
- External Temperature Sensor – option
- Compressor delay algorithm
- Energy saving – cost efficient, Environmental Friendly logic
- Large, easy to read LCD display
- Display for ambient temperature and set point

AC

FC

COOL

HEAT

3 SPEEDS

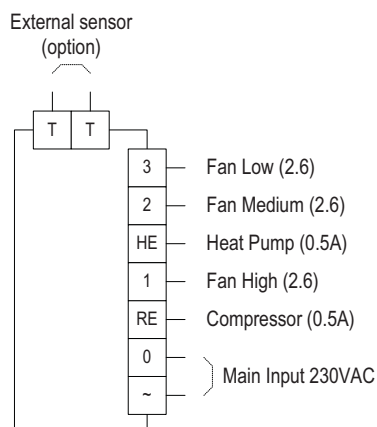
COMPRESSOR
DELAY

ECONOMY

°C

EXT. SENSOR
OPTION


Wiring Diagram



New design - to be released soon



TED-220-HC11-3S

Wall mount, 220VAC thermostat, with temperature display suitable, for fan coil applications and Air Conditions with H/C configurations (no Heat Pump).

The TED-220-HC11-3S thermostat is suitable for commercial or residential applications to control a large variety of HVAC systems, including fan coils.

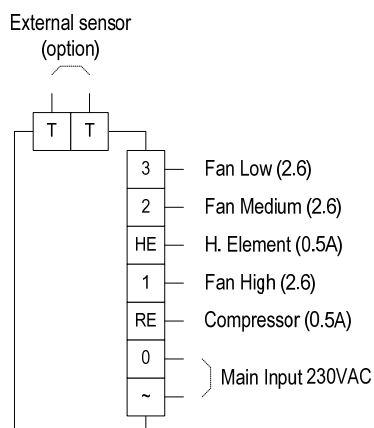
This mechanical thermostat offers Cool and Heat outputs as well as 3 fan speeds, making the TED-220-HC11-3S the perfect solution for basic and simple climate control.

Features

- Wall mount, 220VAC Main supply
- 2 Outputs for Cool and Heat
- 3 Fan Speeds
- External Temperature Sensor - option
- Energy saving – cost efficient, Environmental Friendly logic
- Large, easy to read LCD display
- Display for ambient temperature and set point



Wiring Diagram



New design - to be released soon



TED-24-SUPER

Wall-mount, 24VAC thermostat, for both AC applications as well as Fan Coils.

The TED-24-SUPER thermostat suits commercial or residential applications to control a large variety of HVAC systems, including fan coils.

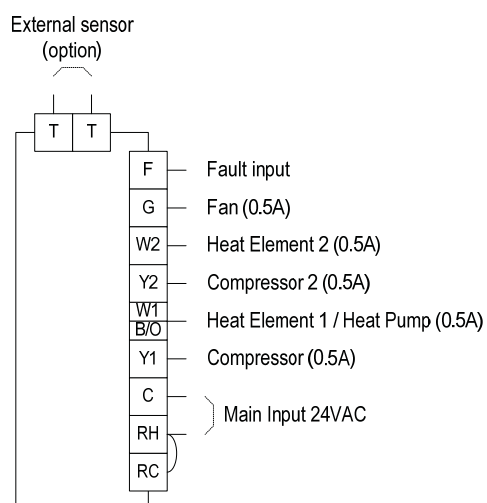
This mechanical thermostat offers up to 2 stages for Cool and 2 stages for Heat, making the TED-24-SUPER the perfect solution for basic and simple climate control.

Features

- Wall mount, 24VAC thermostat
- Heat Pump or Heat/Cool configuration available; jumper selectable
- Suitable for fan coil applications
- Heat Output configuration- Electric or Oil/Gas; jumper selectable
- Energy saving – cost efficient, environmental friendly thermostat
- LCD display for ambient temperature and set point
- External Temperature Sensor – option
- °C or °F scale available- jumper selectable
- Fault input (24VAC) – red led indication



Wiring Diagram



TED-220-C1-3S

Wall mount, 220VAC thermostat, with temperature display, suitable for Fan Coil applications (Cool only)

The TED-220-C1-3S thermostat is suitable for commercial or residential applications to control a large variety of Fan Coil systems.

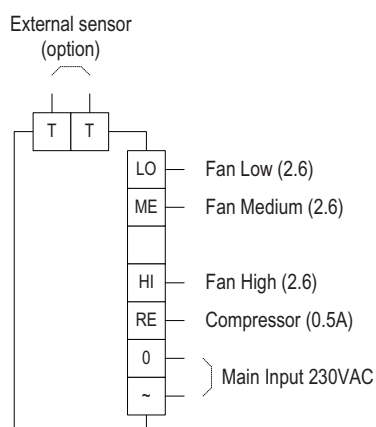
This mechanical thermostat offers an output for Cool as well as 3 fan speeds, making the TED-220-C1-3S the perfect solution for basic and simple climate control in Cool Only configuration systems.



Features

- Wall mount, 220VAC thermostat
- Output for Cool valve
- 3 Fan speeds
- External Temperature Sensor – optional
- Energy saving – cost efficient, Environmental Friendly thermostat
- Large, easy to read LCD display
- LCD display for ambient temperature and set point

Wiring Diagram



TED-24-AUTO-SUPER

Wall-mount, 24VAC thermostat, with 2 outputs for Heat and 1 output for Cool with 1 fan speed (24VAC)

The TED-24-AUTO-SUPER thermostat suits commercial or residential applications to control a large variety of HVAC systems.

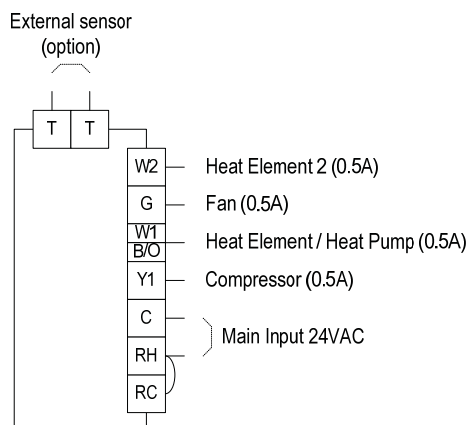
This mechanical thermostat offers 1 stage for Cool and 2 stages for Heat. Its easy to change configuration, using only jumpers, makes the TED-24-AUTO-SUPER the perfect solution for basic and easy climate control.

Features

- Wall mount, 24VAC thermostat
- Heat Pump or Heat/Cool configuration available; jumper selectable
- Heat Output configuration- Electric or Oil/Gas; jumper selectable
- Auto-Change-Over mode
- Energy saving – cost efficient, environmental friendly thermostat
- LCD display for ambient temperature and set point
- External Temperature Sensor – option
- °C or °F scale available- jumper selectable
- Fan/Auto Fan



Wiring Diagram



TES-220-HC11-3S

Wall mount, 220VAC thermostat, for Air Conditioning & Fan Coil applications.

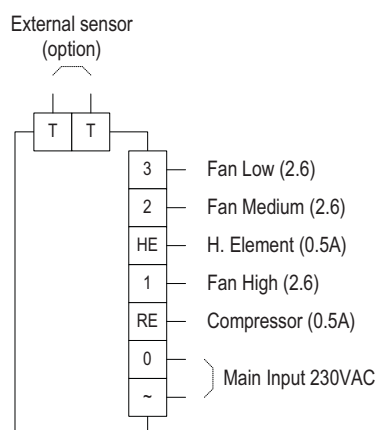
The TES-220-HC11-3S thermostat suits commercial or residential applications and can control a large variety of HVAC systems, including fan coils.

This mechanical thermostat offers Cool and Heat outputs as well as 3 fan speeds, making the TES-220-HC11-3S the perfect solution for basic and simple climate control.

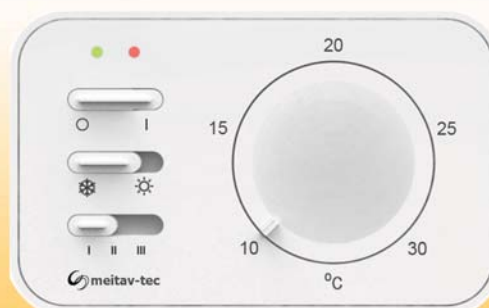
Features

- Wall mount, 220VAC thermostat
- Outputs for Cool & Heat
- 3 Fan speeds
- Energy saving – cost efficient, Environmental Friendly thermostat
- Simple design and logic
- External Temperature Sensor – option

Wiring Diagram



New design - to be released soon



ETN-24-SUPER-3S-FP-PROG-EU-C

24VAC, wall-mount thermostat, with 5-1-1 days, Europe-type weekly program built-in, with Freeze Protection, for multiple HVAC configurations

The ETN-24-Super-3S-FP-Prog-EU-C is an aesthetic, easy to use thermostat for commercial and residential applications. It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers numerous selectable or user adjustable features, such as Freeze Protection to protect system from freezing, Offset for temperature reading or an option for 3 minute compressor delay.

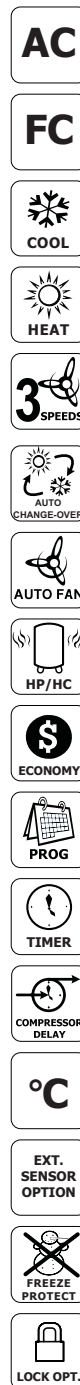
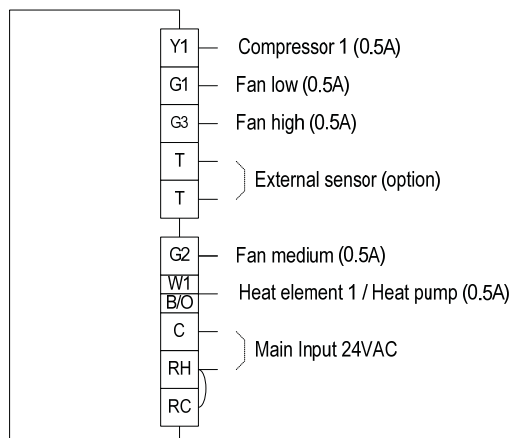
Its 5-1-1 program, with 4 x start time/ stop time per day is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the ETN-24-Super-3S-FP-Prog-EU-C is an attractive, wall mount thermostat with a large, easy to read display.

Features

- Wall-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
- 5-1-1 programmable – 4 x start time / stop time per day
- Modes: Cool, Heat, Auto Mode, Fan Only
- 3 fan speed + Auto Speed
- Set point limits- 10...30°C
- Freeze protection – adjustable
- Energy saving thermostat
- Lock / Unlock thermostat buttons
- Temp. scale - °C
- 3 minutes compressor delay – optional (DIP switch selectable)
- Internal or external sensor – DIP switch selectable
- External sensor- option
- IR remote control – option
- Weekly Timer
- Offset – for temp. reading adjustment - $\pm 6^{\circ}\text{C}$

Wiring diagram



ETN-24-SUPER-PROG-EU Series

**24VAC, wall-mount thermostat,
with 5-1-1, Europe-type weekly program built-in
and multiple Cooling and Heating stages**

The ETN-24-Super-Prog-EU is a stylish thermostat well suitable for commercial and residential applications. It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers a selectable number of heating and cooling stages.

Its 5-1-1 program, with 2 x start time/ stop time per day is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the ETN-24-Super-Prog-EU is an attractive, wall mount thermostat with a large, easy to read display.

Features

- Wall-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
- 5-1-1 programmable – 2 x start time / stop time per day
- 1 fan speed
- Emergency Heat selectable in Heat Pump mode
- Set point limits- 10...30°C
- External sensor- option
- Lock – Unlock thermostat buttons
- °C scale, 24hrs clock
- 3 minutes compressor delay – optional (DIP switch selectable)
- Offset – for temperature reading adjustment
- Internal or external sensor – DIP switch selectable
- IR remote control – option
- Weekly Timer

Models

Model	Cooling stages	Heating stages
ETN-24-HC11-PROG-EU	1	1
ETN-24-HC22-PROG-EU	2	2
ETN-24-HP21-PROG-EU	1	2
ETN-24-HP32-PROG-EU	2	3



ETN-24-SUPER-PROG-7DAYS-US Series

**24VAC, Wall mount thermostat with 7-days,
USA-type weekly program built-in
and multiple Cooling and Heating stages**

The ETN-24-Super-Prog-7 Days-US is a stylish thermostat that is well suited for commercial and residential applications.

It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers a selectable number of heating and cooling stages.

Its 7-Day program, with 1 period (Set Cool/Set Heat) per day, is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the ETN-24-Super-Prog-7 Days-US is an attractive, wall mount thermostat with a large and easy to read display.

Features

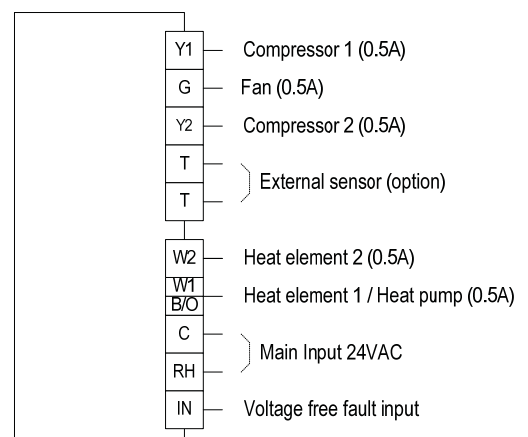
- Wall-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
- 7-day programmable – 1 period per day, each with Set Heat and Set Cool
- Separate Cooling & Heating set points
- Emergency Heat available in Heat Pump mode
- °C scale, 24 hr clock
- Filter counter in hours- range: 0-900 (adjustable)
- Offset for temp. reading adjustment - $\pm 6^{\circ}\text{C}$
- Set point limits for Cool & Heat ($5\ldots 30^{\circ}\text{C}$)
- External Temperature Sensor- option
- Lock – Unlock thermostat buttons
- Voltage-free, normally-open fault input. Will show signal on thermostat when active
- 3 minutes compressor delay – optional (DIP switch selectable)

Models

Model	Cooling stages	Heating stages
ETN-24-HC11-7DAYS-PROG-US	1	1
ETN-24-HC22-7DAYS-PROG-US	2	2
ETN-24-HP21-7DAYS-PROG-US	1	2
ETN-24-HP32-7DAYS-PROG-US	2	3
ETN-24-SUPER-7DAYS-PROG-US	ALL-IN-ONE	ALL-IN-ONE



Wiring diagram



ETN-24-SUPER-PROG-US Series

24VAC, wall-mount thermostat

with 5-1-1, USA-type weekly program built-in and multiple Cooling and Heating stages

The ETN-24-Super-Prog-US is a stylish thermostat well suitable for commercial and residential applications.

It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers a selectable number of heating and cooling stages.

Its 5-1-1 program, with 4 periods (Set Cool / Set Heat) per day, is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the ETN-24-Super-US is an attractive, wall mount thermostat with a large, easy to read display.

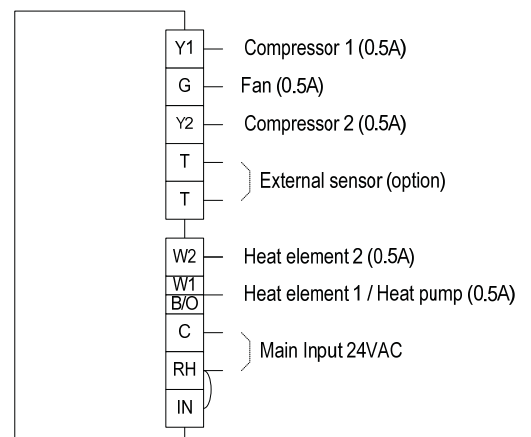
Features

- Wall-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
- 5-1-1 programmable – 4 periods per day, each with Set Heat and Set Cool
- Offset for temperature reading adjustment - +/-6°C
- Double Set points (Cool & Heat)
- Energy saving – cost efficient, environmental friendly thermostat
- Set point limits- 5...30°C - adjustable
- External sensor- option
- Lock – Unlock thermostat buttons
- IR remote control- option
- °C temperature scale
- Internal or external sensor – DIP switch selectable
- 3 minutes compressor delay – DIP switch selectable
- Timer – AM/PM

Models

Model	Cooling stages	Heating stages
ETN-24-HC11-PROG-US	1	1
ETN-24-HC22-PROG-US	2	2
ETN-24-HP21-PROG-US	1	2
ETN-24-HP32-PROG-US	2	3
ETN-24-SUPER-PROG-US	ALL-IN-ONE	ALL-IN-ONE

Wiring diagram



FMT-24-SUPER-PROG

Flush-mount, 24VAC thermostat, 5-1-1 programmable, with various selectable A/C configurations

The FMT-24-SUPER-PROG is a stylish thermostat suitable for commercial and residential applications. It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers a selectable number of heating and cooling stages.

Its 5-1-1 program, with 4 periods (Set Cool/Set Heat) per day, is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the FMT-24-SUPER-PROG is an attractive thermostat with a large and easy to read display.

Features

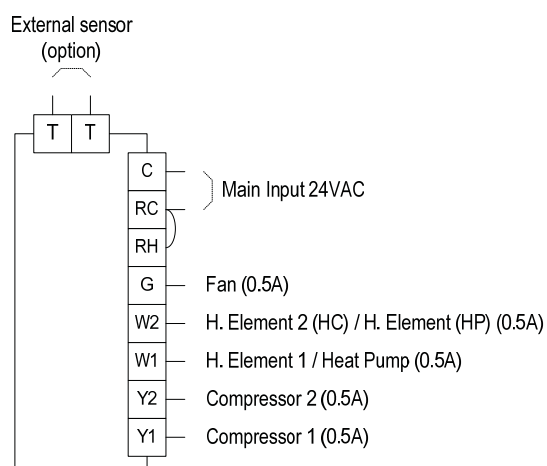
- Flush-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
- 5-1-1 programmable; 4 periods per day, each with Set Heat and Set Cool.
- Auto Change-Over mode option
- Energy saving – cost efficient, Environmental Friendly thermostat
- Offset – for temperature reading adjustment
- 2 set points (Cool & Heat)
- Set point limits- password protected
- External sensor- option
- Lock – Unlock buttons function
- IR remote control- option
- AM/PM clock

Models

Model	Cooling Stages	Heating Stages	Fan Speeds
FMT-24-HC11-PROG	1	1	1
FMT-24-HC22-PROG	2	2	1
FMT-24-HP21-PROG	1	2	1
FMT-24-HP32-PROG	2	3	1
FMT-24-SUPER-PROG	ALL-IN-ONE	ALL-IN-ONE	1



Wiring diagram



ETN24-HC21-PROG-ECO

Wall-mount, 24VAC thermostat, with weekly program built-in and fresh air damper output

The ETN-24-HC21-PROG-ECO is a fully featured, stylish thermostat, suitable for commercial and residential applications. It can control a large variety of HVAC systems with different configurations. It offers a selectable number of heating and cooling stages and a fresh Air Damper output - damper opens automatically or manually.

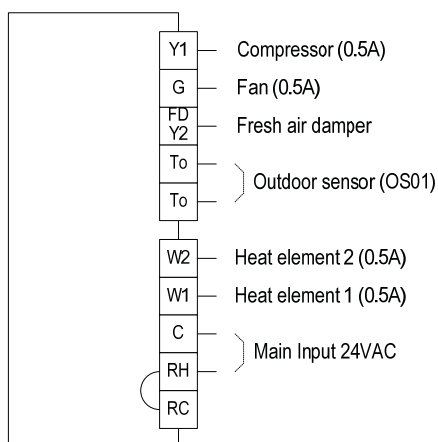
The ETN-24-HC21-PROG-ECO is an attractive thermostat with a large, easy to read display.

Features

- 24VAC wall-mount thermostat
- 2 stages of Heat and 1 stage of Cool
- Adjustable Electric and Oil/Gas system
- Outdoor sensor- option
- Fresh Air Damper output
- 5-1-1 programmable; 4 periods per day, each with Set Heat and Set Cool
- Energy saving – cost efficient, Environmental Friendly logic
- Offset – for temperature reading adjustment
- Freeze Protection even when thermostat is OFF
- Economy mode (set back)
- °F scale, AM/PM clock



Wiring diagram



ETN24-HC21-PROG-OA

24VAC, wall-mount thermostat, with 5-1-1 USA-type weekly program built-in and fresh air damper output.

The ETN-24-SUPER-PROG-OA is a fully featured, stylish thermostat suitable for industrial, commercial and residential applications.

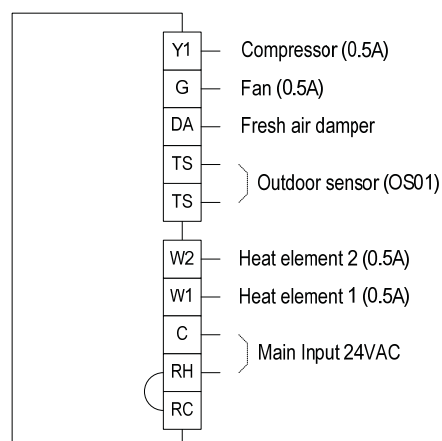
It can control a large variety of HVAC systems with different configurations; Cool, Heat (Electric or Gas) systems. It also offers selectable number of heating and cooling stages and Fresh Air Damper output.

The ETN-24-SUPER-PROG-OA is an attractive, with a large, easy to read display.

Features

- 24VAC, wall -mount thermostat
- 2 stages of Heat and 1 stage of Cool
- Electric or oil/gas system- selectable
- External sensor- option
- Fresh Air Damper output – 24VAC
 - * Controlled by time ONLY (select number of minutes per ½ hour- min.= 0 min (FAD never opens), max.= 30 min (FAD is always open)
 - * FAD will NOT work between 7 PM and 7 AM
- Energy saving – cost efficient, environmental friendly thermostat
- 5-1-1 programmable; 4 periods per day, each with Set Heat and Set Cool
- IR remote control- option (programmable)
- Offset – for temperature reading adjustment
- °F scale, AM/PM clock

Wiring diagram



ETN24-HC21-PROG-TS

24VAC, wall-mount thermostat, with 5-1-1 USA-type weekly program built-in and special damper control in Heat mode.

The ETN-24-SUPER-PROG-TS is a fully featured and stylish thermostat, especially designed for two-story residential applications.

Thermostat on first floor, remote sensor on second floor and motorized damper in duct system.

In heat mode, damper closes when temperature on second floor is 2 degrees (adjustable) higher than on first floor.

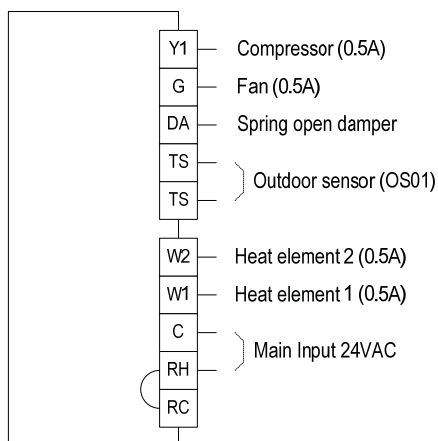
This diverts all air to first floor and balances temperature throughout the house.

Features

- Wall-mount, 24VAC thermostat
- 2 stages of Heat and 1 stage of Cool
- Electric or oil/gas system- selectable
- Remote 2nd floor temperature sensor
- Power open/Spring close damper output- 24VAC (works only in Heat mode)
- °F scale, AM/PM clock
- Energy saving – cost efficient, environmental friendly thermostat
- 5-1-1 programmable; 4 periods per day, each with Set Heat and Set Cool
- IR remote control - option (programmable)
- Backlight display on LCD
- Offset – for temperature reading adjustment



Wiring diagram



CTR-24-SUPER

Wall mount, 24VAC thermostat, programmable, with an extra connection for an IR for a remote control from a second location

The CTR-24-SUPER thermostat offers a selectable number of heating and cooling stages for Heat Pump or Heat/Cool systems.

The CTR-24-SUPER enables connection of an extra IR receiver panel for remote control from a second location.

In addition, it offers an alarm output, a fault input and also indicates outdoor temperature.

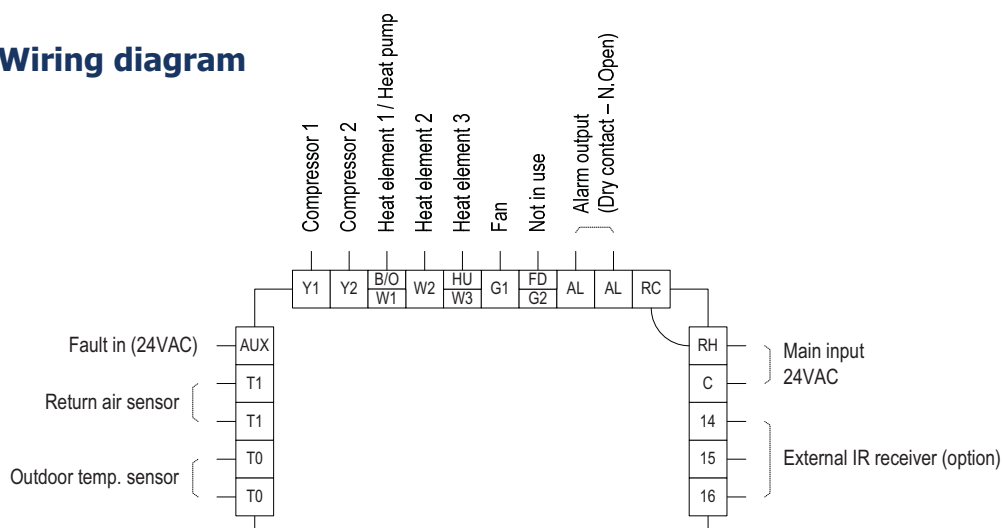
With built-in weekly programming (where set Cool, set Heat may be programmed), the CTR-24-SUPER is a convenient, temperature control solution.

Features

- Main supply- 24VAC
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
 - * Temperature scale- °C or °F
- 5-1-1programmable; 4 periods per day, each with Set Heat and Set Cool
- Limit Cool and Heat set-point
- Energy saving – cost efficient, environmental friendly thermostat
- Multiple stages for Cooling and Heating – up to 3 cooling stages and 3 Heating stages
- Alarm output – 24VAC dry contact, normally-open
- Fault Input– 24VAC
- External Temperature Sensor- option
- Outdoor temperature sensor- option
- Extra IR receiver panel for remote control



Wiring diagram



BDIR-24-SUPER-PROG

**Wall-mount, 24VAC thermostat,
with 5-1-1 USA-type Weekly Program built-in,
operable via Remote Control only.**

The BDIR-24-Super is a stylish thermostat, ideally suitable for commercial applications, as it is operable via IR remote control only.

It can control a large variety of HVAC systems with either Heat/Cool or Heat Pump configurations and offers a selectable number of heating and cooling stages. Its 5-1-1 program, with 4 periods (Set Cool/Set Heat) per day, is easy to use and can provide 24-hour comfort as well as energy savings.

Overall, the BDIR-24-SUPER-PROG is an attractive, wall mount thermostat with a large, easy to read display.



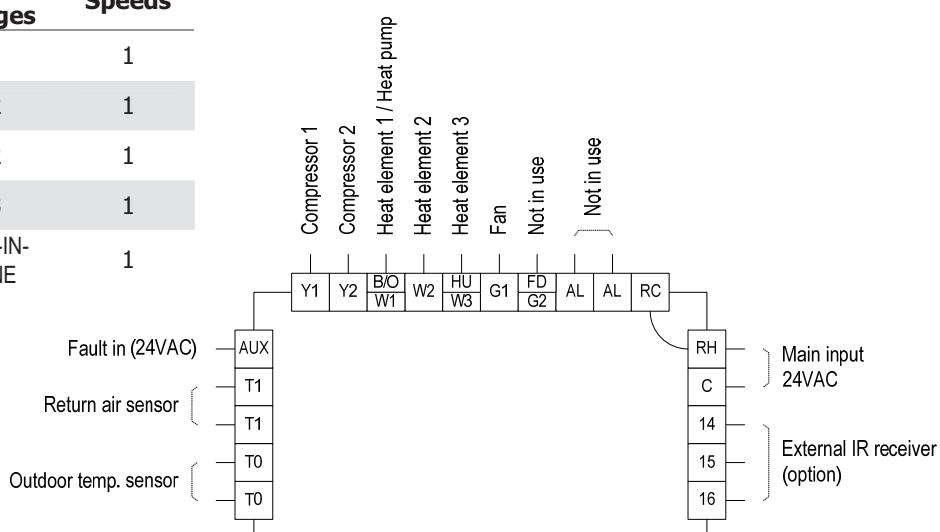
Features

- Wall-mount, 24VAC thermostat
- DIP switch selectable configurations:
 - * Heat/Cool or Heat Pump system
 - * Electric or Oil/Gas heat system
 - * Heat Pump in Cool or Heat
 - * °F or °C temperature scales
- Energy saving – cost efficient, environmental friendly thermostat
- 5-1-1 programmable; 4 periods per day, each with Set Heat and Set Cool
- Operable via IR Remote Control only
- 2 set points (Cool & Heat)- for auto-change-over
- External Temperature Sensor- option

Models

Model	Cooling Stages	Heating Stages	Speeds
BDIR-24-HC11-1S	1	1	1
BDIR-24-HC22-1S	2	2	1
BDIR-24-HP21-1S	1	2	1
BDIR-24-HP32-1S	2	3	1
BDIR-24-SUPER	ALL-IN-ONE	ALL-IN-ONE	1

Wiring diagram



CEO-24-HC22

"Talking Thermostat" with telephone & voice capabilities, "call-out" options and 5-1-1 weekly programmable. Perfect for controlling temperature in second home

The CEO-24-HC22 thermostat brings you the state of the art technology in thermostat with telephone and voice capabilities. It is the perfect choice for controlling temperature in your second home, cabin, condo or office from a remote location.

Want to Heat up or Cool down your vacation home before you arrive while you are on the way? Forgot to change mode and left home? Call your CEO-24-HC22 thermostat

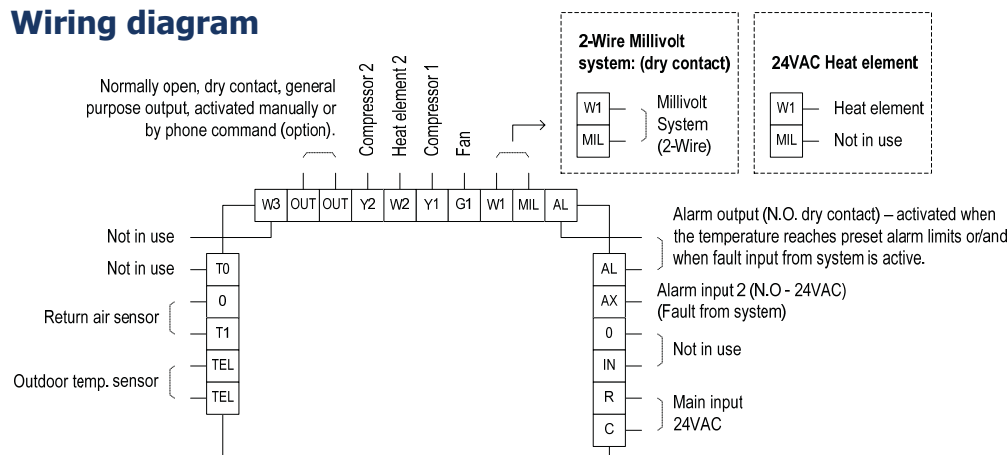
and receive verbal information on actual temperature and thermostat settings to change them. Not only that but, the CEO-24-HC22 will call you in case of an alarm situation to enable you change set point, mode or turn the system off. This unique thermostat offers also 5-1-1 weekly programming, so together with its built-in communication, alarm activation in case of reaching Cool /Heat limits and further remarkable qualities, the CEO-24-HC22 is the ultimate thermostat to give you peace of mind!

Features

- Main supply- 24VAC
- Telephone communication:
 - * thermostat calls-out to user in case of alarm situation
 - * up to 3 numbers can be programmed to be called in case of alarm
 - * thermostat re-dials every 2 minutes in case of busy signal
 - * call thermostat from remote location to check or set mode and temperature
- Modes: Cool /Heat / Auto-Change-Over/ Auto-fan / Fan-On
- Economy mode – to be activated when you leave home for any period of time
- 5-1-1 weekly program
- Up to 2 stages of Heat and 2 stages of Cool
- Heat output- Electric or Oil/Gas jumper selectable
- Selectable system configuration- Heat Pump / Millivolt (dry contact)
- Internal / External sensor- jumper selectable
- 4 minutes compressor delay – jumper selectable
- Clock mode – 24 hours / 12 hours (AM/PM) – jumper selectable
- General purpose output (e.g. boiler) – to be activated also by telephone for unlimited time
- External Temperature Sensor- option
- °C or °F Temperature display
- Real Time Clock



Wiring diagram



CEM-24-SUPER

"Talking Thermostat" with telephone and voice options, and 5-1-1 weekly programmable, perfect for controlling temperature in second home

The CEM-24-SUPER thermostat brings you the state of the art technology in thermostat with telephone and voice capabilities. It is the perfect choice for controlling temperature in your second home, cabin, condo or office from a remote location.

Want to Heat up or Cool down your vacation home before you arrive while you are on the way? Forgot to change mode and left home? Call your CEM-24-SUPER thermostat and receive verbal information on actual temperature and thermostat settings and command to raise or lower temperature, change mode or turn the system on or off.

This unique thermostat offers also 5-1-1 weekly programming, so together with its built-in telephone capability,

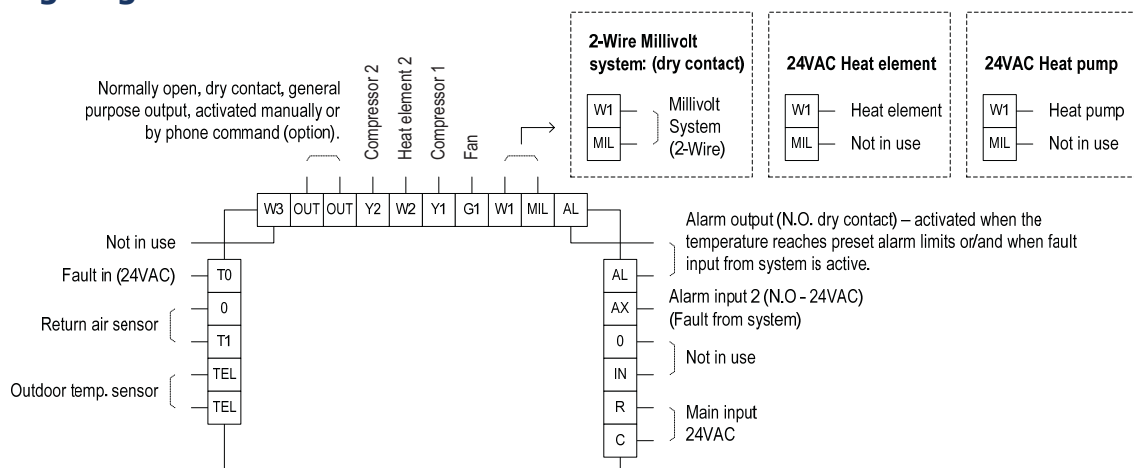
alarm activation in case of reaching Cool /Heat limits and further remarkable qualities, the CEM-24-SUPER is the ultimate thermostat to give you peace of mind!



Features

- Main supply- 24VAC
- Telephone communication – Call thermostat and listen to information on temperature settings, or set mode and temperature from a remote location through telephone
- Alarm activated when temperature reaches pre-set high or low limit, or when fault input is active – indicated by red LED
- 5-1-1 weekly program
- Modes: Cool /Heat /Auto-Change-Over /Auto-fan /Fan-On
- Economy mode – to be activated when you leave home for any period of time
- Selectable system configuration- Heat-Cool / Heat Pump / Millivolt (dry contact)
- Up to 2 stages of Heat & 2 stages of Cool
- Heat output- Electric or Oil/Gas - jumper selectable
- Heat Pump in Cool /Heat – jumper selectable
- Internal / External Temperature Sensor - jumper selectable
- General purpose output (e.g. boiler) – to be activated also by telephone for a un/limited time
- Large, easy to read display

Wiring diagram



CEV-24-SUPER

Wall-mount, 24VAC thermostat with built in loudspeaker, especially designed for visually-impaired individuals.

The CEV-24-SUPER brings the latest technology in room temperature control and is perfectly suitable for residential and commercial applications.

With voice option and built-in speakers, the CEV-24-SUPER is ideal for visually impaired individuals. Pressing the command buttons activates the voice, which guides the user to change mode, set point, etc. Available in C° or F° scale.

With the CEV-24-SUPER, climate control becomes accessible to everyone in a simple, user-friendly way.

Features

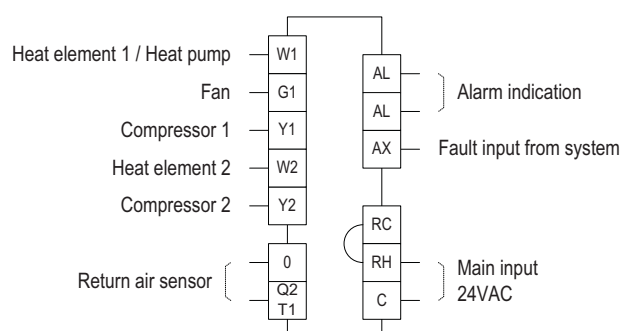
- Main supply- 24VAC
- Built-in speakers and voice option- thermostat speaks to user allowing him to:
 - * Turn On/Off thermostat
 - * Verify & change mode
 - * Verify & change set point
 - * Verify indoor & outdoor temp.
 - * Verify time of day
- Ideal for visually-impaired individuals
- Heat/Cool or Heat Pump - selectable
- Energy Saving – cost efficient, Environmental Friendly logic built-in
- Up to 2 stages of Heat and 2 stages of Cool
- Selectable Heat output- Electric or Oil/Gas (jumper selectable)
- Celsius or Fahrenheit temperature scale
- External Temperature Sensor - option
- Outdoor sensor- option
- Alarm indication output
- Fault input, 24VAC
- 5-1-1 weekly program
- Economy mode (set-back/unoccupied mode)



Models

Model	Cool	Heat	Speeds
CEV-24-HC11	1	1	1
CEV-24-HC22	2	2	1
CEV-24-HC21	1	2	1
CEV-24-SUPER (all in one-HC11, HC22, HC21)	1 or 2	1 or 2	1

Wiring diagram



ETN-24-P/PD-FC-SUPER2

Wall mount, 24VAC thermostat, for all Fan Coil Proportional valve applications.

The ETN-24-P/PD-FC-SUPER2 is a fully featured, advanced thermostat suitable for light commercial, residential or apartment systems to control a wide array of Fan Coil applications.

This superior thermostat offers various configurations according to customer's requirements, applicable by DIP switches. It suggests 2 separate proportional outputs for Cool & Heat for 4-pipe Fan Coil systems, or a single proportional output for both Cool & Heat for 2-pipe systems. In addition, it has an option for 1, 2 or 3 fan speeds as well as an option for an Auto-change-over and an external sensor. Suitable for Wholesalers to keep a stock on the shelf and supply the proper configuration according to customer's specifications.

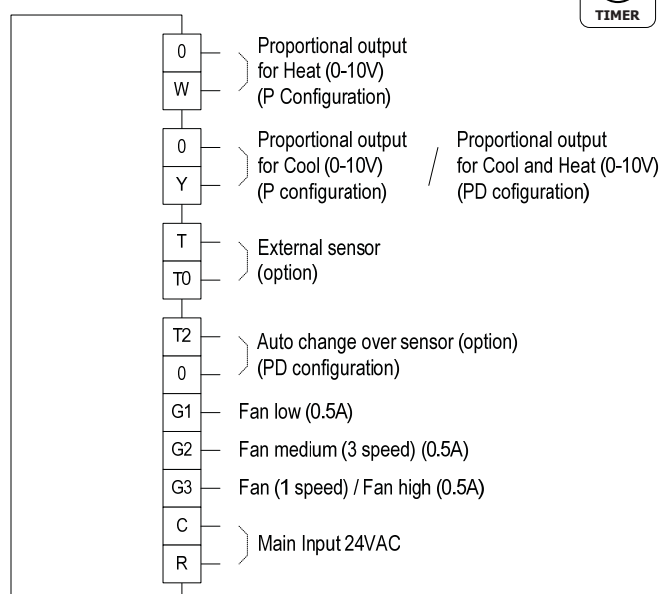
All these qualities make the ETN-24-P/PD-FC-SUPER2 a superior, flexible solution for easy temperature control.

Features

- Wall mount , 24VAC thermostat
- 1 or 2 proportional (0-10V or 2-10) output for Cool & Heat – DIP switch selectable
- 1,2 or 3 fan speeds – DIP switch selectable
- Auto-change-over mode by T2 water sensor
- Auto Fan Speed
- External Temperature Sensor – optional
- Energy saving – cost efficient, environmental friendly thermostat
- Celsius or Fahrenheit temperature scales – DIP switch selectable
- Daily, digital Timer – optimal when you are asleep or away
- Set point limits
- Temp Reading Offset – $-5^{\circ}..0..+5^{\circ}$
- Silicon rubber buttons
- IR option



Wiring diagram



ETN24-PH-FC-SUPER

Wall-mount, 24VAC thermostat, with proportional output for Cool (0-10VDC), on-off output for Heat. Suitable for Cool/Heat or Cool Only applications

The ETN24-PH-FC-SUPER is an advanced, energy saving thermostat suitable for light commercial, residential or apartment systems to control Cool/Heat or Cool Only, Fan Coil applications.

This thermostat offers various configurations, either Cool/Heat/Auto, Cool/Heat/Fan, or alternatively Cool Only, all of which are selectable with 1, 2 or 3 fan speed control. For Cool/Heat applications, it allows

proportional output (0-10VDC) for Cool and On/Off output for Heat, while for Cool Only, it enables only 1 proportional output for Cool. In addition, it offers Economy mode for maximum energy saving.

All these qualities make the ETN24-PH-FC-SUPER suitable for wholesalers, keeping a stock on the shelf and supplying the proper configuration according to customer's specifications.

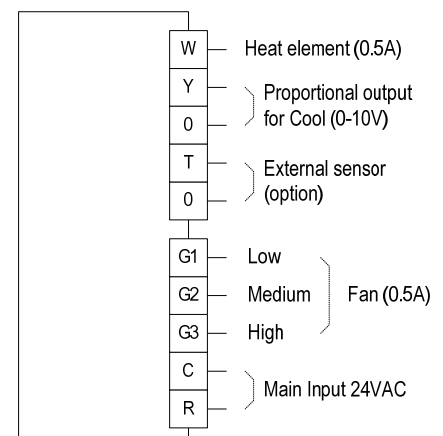
Features

- Wall mount, 24VAC thermostat
- 1 proportional output for Cool (0-10VDC) and 1 on-off output for Heat
- Modes: Cool/Heat/Auto, Cool/Heat/Fan, Cool Only
- 1, 2 or 3 fan speeds + Auto speed
- Economy mode
- Window contact, normally open / normally closed – DIP switch selectable
- Internal / external sensor – DIP switch selectable
- Auto-fan
- Fan Only
- Lock buttons - option
- Energy saving – cost efficient, environmental friendly thermostat
- Celsius or Fahrenheit temperature scales
- IR option
- Set point limits - 10°..30° C (50..86°F) +set points for Economy mode
- Temp. offset – $\pm 5^{\circ}\text{C}$

Models

Heater	Mode	Fan Speed
Electric	Cool, Fan Only	1 / 2 / 3
	Cool, Heat, Fan Only	1 / 2 / 3
	Cool, Heat, Auto, Fan Only	1 / 2 / 3
Oil / Gas	Cool, Fan Only	1 / 2 / 3
	Cool, Heat, Fan Only	1 / 2 / 3
	Cool, Heat, Auto, Fan Only	1 / 2 / 3

Wiring diagram



FC

0-10V
OUTPUT

COOL

HEAT

1/2/3
SPEEDS

AUTO FAN

ECONOMY

AUTO
CHANGE-OVER

°C
°F

LOCK OPT.

EXT.
SENSOR
OPTION

RT03

FMH-24-P-1S

Flush-mount 24VAC Thermostat, with 2 separate proportional outputs for Cool & Heat (0-10VDC) and 1 fan speed.

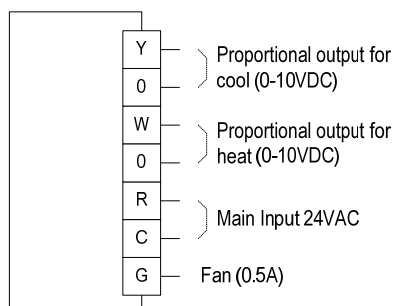
The FMH-24-P-1S is a fully featured thermostat suitable for light commercial, residential or apartment applications. It has 2 proportional outputs for Cool and Heat (0-10VDC) and 1 fan speed. It is a smart looking, flush mount thermostat, with a soft aesthetic shape and a large, easy to read LCD display.

Features

- Flush-mount, 24VAC thermostat
- 2 separate proportional outputs for Cool and Heat (0-10V or 2-10V)
- 1 fan speed
- Hand held remote control – optional
- Temperature reading offset – optional $\pm 6^{\circ}$
- Energy saving – cost efficient, environmental friendly thermostat
- Modes: Cool / Heat / Auto / Fan
- Temperatures Limit – optional
- 12-h Timer (using Remote Control)
- Silicon rubber key pads
- Large, easy to read display
- Simple & friendly setting



Wiring diagram



FMH-24-PD-1S

Flush-mount, 24VAC thermostat, with a single proportional output for both Cool and Heat and 1 fan speed.

The FMH-24-PD-1S is a fully featured, easy to operate thermostat suitable for light commercial and residential applications. It offers 1 proportional output for both Cool and Heat (0-10VDC or 2-10VDC) and 1 fan speed.

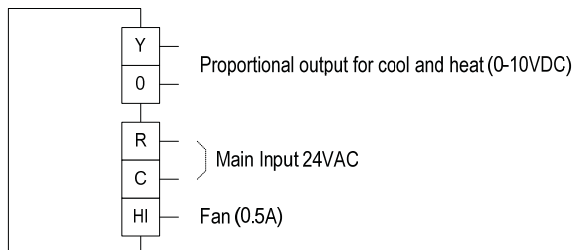
It is an attractive, flush mount thermostat, with a large and easy to read display.



Features

- Flush-mount, 24VAC thermostat
- 1 proportional output for both Cool and Heat
- 0-10VDC or 2-10VDC proportional output
- 1 fan speed
- Modes: Cool / Heat / Fan
- Large & easy to read display
- Silicon rubber key pads
- Simple & friendly setting

Wiring diagram



FMT-24-PD-3S

Flush-mount, 24VAC thermostat, with a single proportional output for both Cool & Heat and 3 fan speeds.

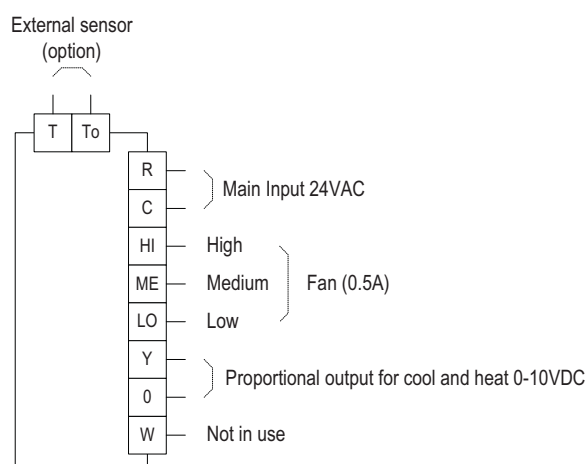
The FMT-24-PD-3S is a fully featured, stylish thermostat suitable for light commercial, residential or apartment, 2-pipe fan coil applications. It offers 1 proportional output for both Cool and Heat (0-10VDC or 2-10VDC) and 3 fan speeds.

The FMT-24-PD-3S is a smart looking, flush mount thermostat, with a soft aesthetic shape and a large, easy to read LCD.

Features

- Flush-mount, 24VAC thermostat
- 1 proportional output for both Cool and Heat
- 3 fan speeds + auto speed
- External Temperature Sensor – optional
- Modes: Cool /Heat /Fan Only
- Large & easy to read display
- Silicon rubber key pads
- Simple & friendly setting

Wiring diagram



ETN-24-P-1S (Cool Only)

Wall-mount thermostat for VAV applications, with 1 proportional output (0÷10VDC) for Cool only

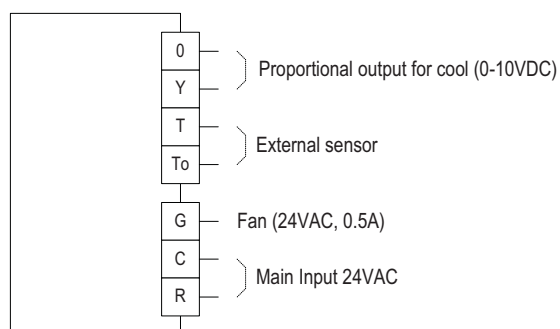
The ETN-24-P-1S (Cool Only) thermostat is a fully featured and stylish thermostat suitable for light commercial, residential or apartment applications. This thermostat has proportional output for Cool (0-10VDC or 2-10 VDC), large, easy to read display and a hand held remote control.

Features

- Wall mount, 24VAC thermostat
- 1 proportional output for Cool (0-10V or 2-10V)
- External Temperature Sensor - Option
- Differential - Adjustable for 0–10 VDC
- Offset temperature reading - Adjustable
- Energy saving – cost efficient, environmental friendly logic
- Temperature limit range - (10°C...30°C, 50°F...86°F)
- Two different scales: Fahrenheit or Celsius
- Lock buttons option
- Hand Held Remote Control – Option



Wiring diagram



TED-24-P-3S (FAN 230 VAC)

Wall-mount, 24VAC thermostat, with 2 proportional outputs for Cool and Heat (0-10V) and 3 fan speeds (230VAC).

The TED-24-P-3S is an attractive, fully featured thermostat suitable for light commercial, residential or apartment applications. It has two proportional outputs for Cool and Heat and 3 fan speeds.

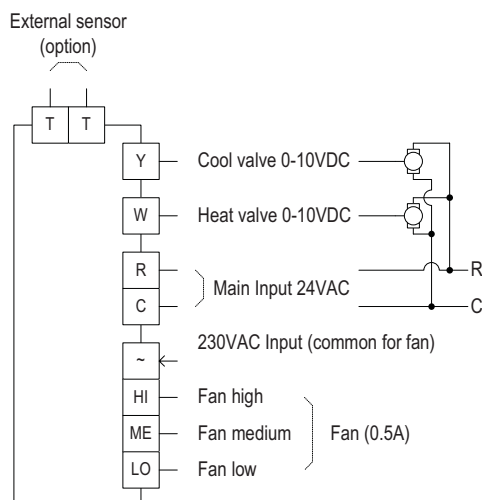
All these qualities make the TED-24-P-3S the perfect solution for basic and easy climate control.

Features

- Wall-mount, 24 VAC Thermostat
- 2 proportional outputs (0-10 VDC) for Cool & Heat
- 3 fan speeds - 230 VAC outputs (using 220V feed)
- External Temperature Sensor – option
- Energy saving – cost efficient, environmental friendly thermostat
- Simple & friendly setting



Wiring diagram



TED-24-P-3S-Cool Only (FAN 230 VAC)

**Wall-mount, 24VAC thermostat,
with 1 proportional output for Cool only
(0-10V) and 3 fan speeds (230VAC)**

The TED-24-P-3S-Cool Only is a fully featured, easy to operate thermostat suitable for light commercial, residential or apartment applications. It has one proportional output for Cool Only and 3 fan speed outputs, 230 VAC.

It is an attractive, wall mount thermostat, with a large easy to read display.



FC

0-10V
OUTPUT

COOL

3
SPEEDS

\$
ECONOMY

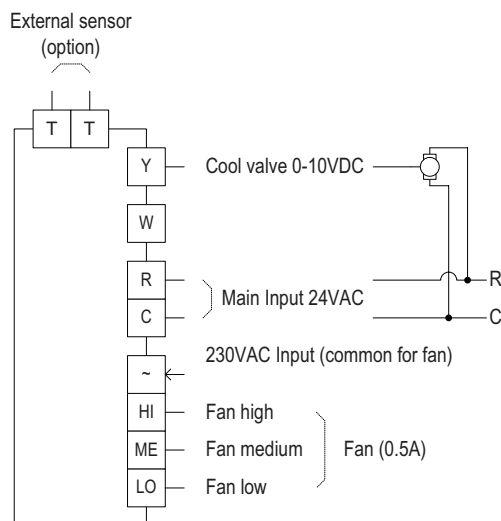
°C

EXT.
SENSOR
OPTION

Features

- Wall-mount, 24VAC thermostat
- 1 proportional output (0-10 VDC) for Cool
- 3 fan speeds
- Fan - 230 VAC power supply
- External Temperature Sensor - optional
- Simple & friendly setting
- Large, clear LCD display
- Energy saving – cost efficient, environmental friendly thermostat

Wiring diagram



ETN-24-PM2 series

Wall-mount, 24VAC thermostat with 2 separate proportional outputs for Cool & Heat (3-wire) and 1 or 3-fan speeds

The ETN-24-PM2 Series is suitable for light commercial or residential applications. It offers 2 proportional outputs (3-wire) for Cool & Heat valves and 1 speed or 3 speeds, 24VAC fan.

The ETN-24-PM2 is an attractive thermostat with a large, easy to read, display.

Features

- Wall mount, 24VAC thermostat
- 2 Proportional and Integral outputs (3-wire) for Cool & Heat
- Adjustable Open/Close time for motor (10 to 400 seconds)
- Modes - Cool / Heat / Auto
- External / Internal sensor – DIP switch selectable

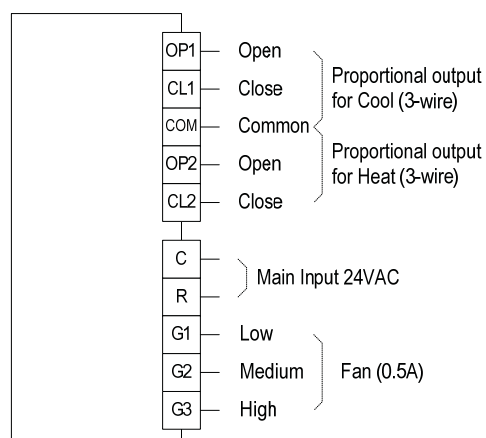


- Auto speed
- Offset - $\pm 6^{\circ}\text{C}$
- Set point temp. – 10...30°C
- Auto-fan
- Energy saving – cost efficient, environmental friendly thermostat

Models

Model	Fan Speeds
ETN-24-PM2-1S	1
ETN-24-PM2-3S	3

Wiring diagram



ETN-24-PMHP

Wall mount, 24 VAC thermostat, for 2-pipe systems, with 1 proportional output (3-wire, 24VAC) for Heat and a compressor with Heat Pump output for Cool

The ETN-24-PMHP is well suited for commercial or residential applications.

It offers 1 proportional output (3-wire, 24VAC) for Heat and a compressor with Heat Pump output for Cool. It is suitable for 2-pipe systems only and has 1 fan speed or 2 fan speeds, 24 VAC.

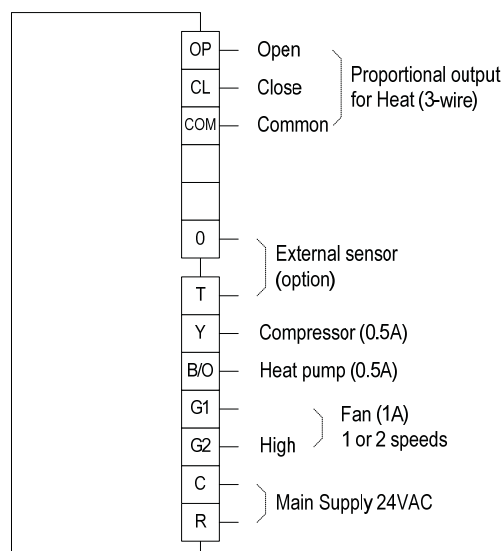
The ETN-24-PMHP is an attractive thermostat, with a large, easy to read display.



Features

- Wall mount – 24VAC thermostat
- Adjustable Open/Close time for motor (10 to 250 seconds)
- 1 Proportional and Integral output (24VAC) , 3 wire, for Heat
- Heat second stage using Compressor W/WO Heat Pump
- Cool output, Compressor W/WO Heat Pump
- 1 or 2 fan speed
- Two Temp. scales: Fahrenheit or Celsius
- External Temperature Sensor - Option
- Lock buttons option
- Energy saving – cost efficient, environmental friendly thermostat IR remote control option

Wiring diagram



ETN-24-P/PM-1S (Cool Only)

Wall mount, 24VAC thermostat, with 0-10VDC output for Cool and 3-wire output for damper control

The ETN-24-P/PM-1S (Cool Only) thermostat is a fully featured and stylish thermostat suitable for light commercial, residential or apartment applications.

It offers a proportional output for Cool (0-10VDC) as well as another 3-wire proportional output, ideal for dampers.

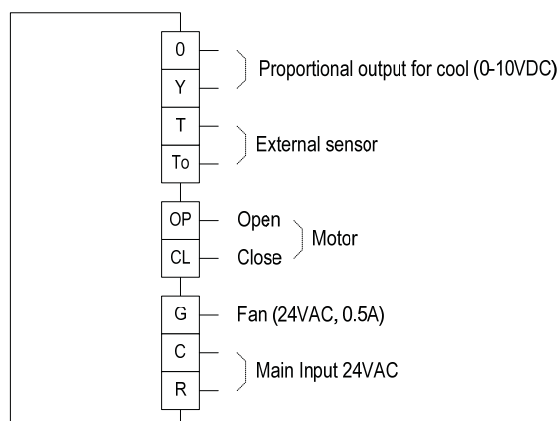
The ETN-24-P/PM-1S (Cool Only) is an attractive, stylish thermostat with a large, easy to read display and an optional IR remote control.

Features

- Wall mount, 24VAC thermostat
- 0÷10V or 2÷10V Cool Output
- 3 Wire, proportional output– Open / Close, time adjustable
- Differential - adjustable for 0÷10 VDC
- Display for set temperature only – selectable by DIP switch position
- Energy saving – cost efficient, Environmental Friendly algorithm
- Lock buttons
- Two Temp. scales: Fahrenheit or Celsius
- External Temperature Sensor - Option
- Offset for temperature reading adjustment
- Hand Held Remote Control – Option



Wiring diagram



ETN-24-PMH series

Wall mount, 24 VAC thermostat, for 2-pipe systems, with 1 proportional output (3-wire, 24VAC) for Cool and an on/off output for Heat

The ETN-24-PMH Series is well suited for commercial or residential applications.

It offers 1 proportional output (3-wire, 24VAC) for Cool and an on/off output for Heat. It is suitable for 2-pipe systems only and has 1 fan speed or 3 fan speeds, 24 VAC.

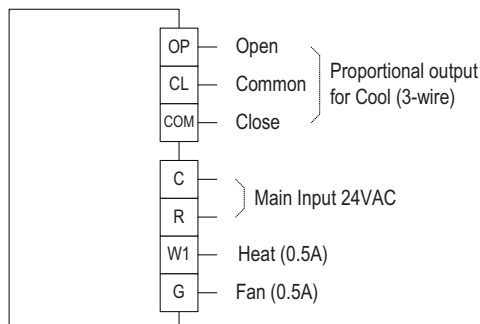
The ETN-24-PMH is an attractive thermostat, with a large, easy to read display.



Features

- Wall mount – 24VAC thermostat
- Proportional and Integral output, 3 wire (24VAC) for Cool
- Adjustable Open/Close time for motor (10 to 400 seconds)
- Heat output (on/off relay) - 24 VAC
- Heater type – Electric or Oil (DIP Switch selectable)
- On/Off or Start/Stop configuration - selectable
- 1 or 3 fan speed control (DIP Switch selectable)
- Fan Off delay after Electric heater operation
- Energy saving – cost efficient, environmental friendly thermostat IR
- remote control option
- Auto speed (only in 3 speed model)
- Auto fan – selectable
- Temperature limits for Cool and Heat

Wiring diagram



CHU-24-SUPER

Wall-mount, 24 VAC thermostat, for controlling Temperature & Humidity, weekly programmable

The CHU-24-SUPER thermostat is a combined Temperature & Humidity controller.

It offers a selectable number of heating and cooling stages as well as an output for humidifier or de-humidifier. The CHU-24-SUPER has a built-in humidity sensor, which allows adjustment of a Humidity Set Point.

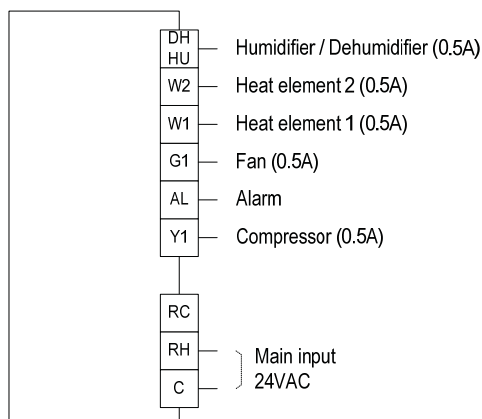
It also offers weekly programming (where set Cool, set Heat and set Humidity may be programmed) and alarm indication in case temperature or humidity limits are exceeded.

Features

- Main supply- 24VAC
- System configuration- Heat Pump or Heat/Cool (jumper selectable)
- Multiple stages for Cooling & Heating
- Output for Humidifier or De-Humidifier (jumper selectable)- 24VAC
- Humidity sensor built-in (0-10VDC)
- Adjustable Heat configuration; Electric or Oil/Gas system (jumper selectable)
- Energy saving – cost efficient, environmental friendly thermostat
- 5-1-1 weekly program with programmable set Cool, set Heat and **Set Humidity**
- Re-heat function in humidity logic
- Alarm output (24VAC) – Indication in case temperature or humidity limits are exceeded
- Adjustable temperature set point range – 5°C - 35°C
- Adjustable humidity set point range – 20%-70% RH



Wiring diagram



ERHU-55

Wall-mount, 12VDC Humidity Controller for de-humidification only.

The ERHU-55 is a Humidity controller with a built-in humidity sensor and an output for de-humidification via a compressor.

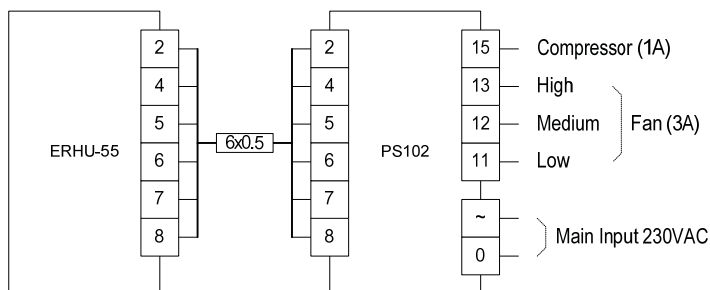
The ERHU-55 allows users to adjust Humidity Set Point and the desired fan speed. The main input and outputs are 12VDC, and therefore the ERHU-55 must be used with power supply PS102.



Features

- Main supply – 12VDC
- On/Off output for De-Humidification (via compressor)
- Humidity sensor built-in
- Adjustable humidity set point
- 3 Fan speeds- manually adjustable

Wiring diagram



DEH-2000

Wall-mount, 24VAC, humidity ONLY controller with Fresh Air Damper output and weekly program built-in.

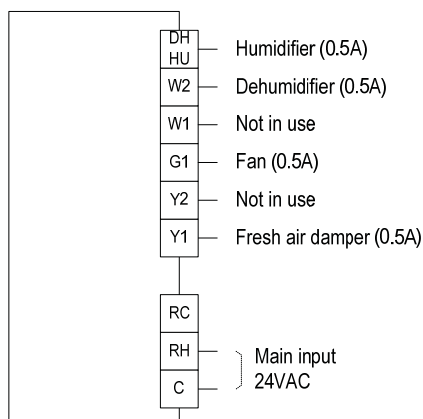
The DEH-2000 has a built-in humidity sensor, which allows adjustment of a HUMIDITY SET POINT. It offers a humidifier and de-humidifier output (24VAC) as well as a weekly program for the operation of Fresh Air Damper.



Features

- Main supply- 24VAC
- On/Off output for Humidifier- 24VAC
- On/Off output for De-Humidifier- 24VAC
- Output for Fresh Air Damper
- Humidity sensor built-in
- Display of T-ambient in °C or °F
- Energy saving – cost efficient, environmental friendly thermostat
- 5-1-1 weekly program (4 x start/stop) for Fresh Air Damper operation
- Fan always runs when ventilation occurs (FAD open), even if Fan has been set to "Off"
- Re-heat function in humidity logic
- Adjustable humidity set point range- 20%-90%

Wiring diagram



ETN-24-P-3S-HU

Wall-mount, 24VAC, temperature and humidity controller (de-humidification only), with proportional integral outputs for Cool and Heat

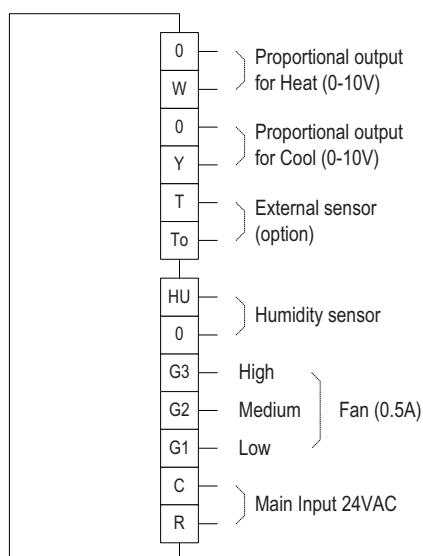
It offers 2 separate Proportional Integral (0-10VDC) outputs and 3 Fan Speeds; one output for Cool & De-Humidification and another for Heat. With inputs for external temperature and humidity sensors, the ETN-24-P-3S-HU allows the user to adjust both Temperature and Humidity set points.

Features

- Wall mount, 24VAC thermostat
- 2 separate Proportional Integral (0-10VDC) outputs:
 - * Cool and Dehumidification
 - * Heat
- 2 adjustable set points; temperature and humidity
- Auto-Changeover mode
- Input for external temperature sensor
- Energy saving – cost efficient, environmental friendly thermostat
- Input for external humidity sensor (0-10VDC)
- Humidity set point range- 40%-70% RH
- Works with Meitav-tec's GHU sensor- combined temperature & humidity sensor for room or duct
- Re-heat function in humidity logic (only in Auto-Changeover mode)



Wiring diagram



M5003-24VAC/12VDC

Wall mount, 24VAC or 12VDC controller for Temperature & Humidity

The M5003 thermostat is a combined Temperature & Humidity controller, available in either 24VAC or 12VDC. The M5003 offers a selectable number of heating and cooling stages as well as 2 outputs for Humidifier and De-Humidifier. The M5003 allows adjustment of Humidity & De-Humidity set points and also offers weekly programming.



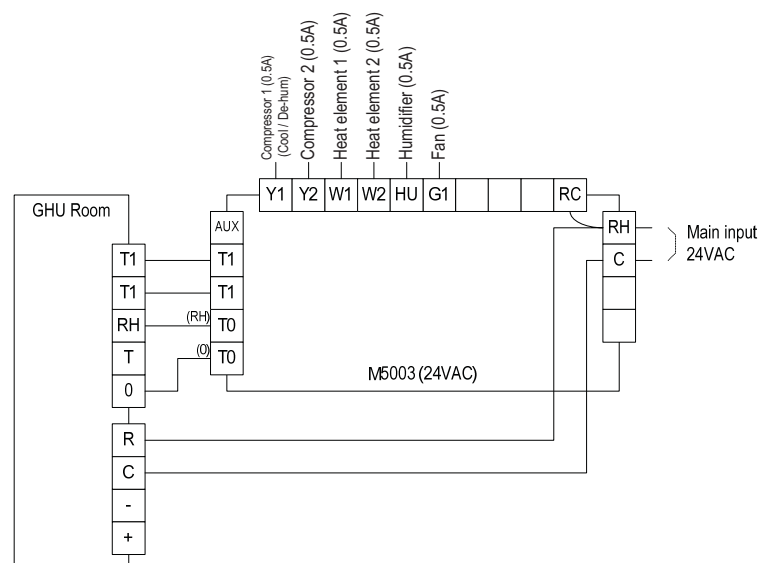
Features

- Main supply- 24VAC or 12VDC
- Multiple stages for Cooling and Heating (up to 2 stages of Heat and 2 stages of Cool)
- Output for Humidifier
- Output for De-humidifier
- 2 separate set points for humidification and de-humidification
- Input for external temperature sensor
- Input for external humidity sensor (0-10VDC)
- Energy saving – cost efficient, environmental friendly controller
- Adjustable Heat configuration; Electric or Oil/Gas system (jumper selectable)
- 5-1-1 weekly program with programmable temperature set point, humidity set point and de-humidity set point
- Re-heat function in humidity logic
- Works with Meitav-tec's GHU sensor- combined temperature and humidity sensor for room or duct

Models

Model	Voltage
M5003-12VDC	12VDC
M5003-24VAC	24VAC

Wiring diagram

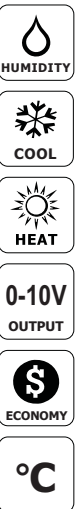


M5001-24-4X0-10VDC

Wall mount, 24VAC controller for Temperature & Humidity

The M5001-24-4X0-10VDC controller is a multi-purpose display controller. It offers unique flexibility and simplicity, allowing users proportional control of both temperature and humidity.

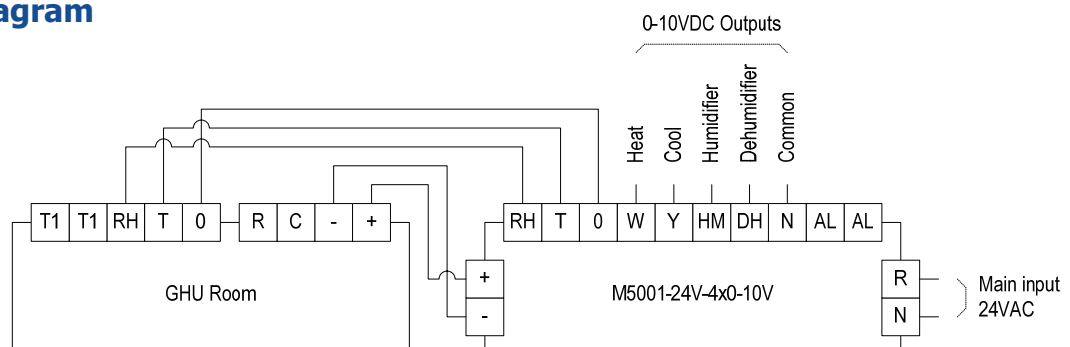
The M5001-24-4X0-10VDC offers 4 different proportional outputs; Cool, Heat, Humidifier and De-humidifier. Additional features such as wide temperature and humidity ranges, adjustable differentials and adjustable dead-zones, make the M5001-24-4X0-10VDC a truly unique and practical controller.



Features

- Wall mount, 24VAC controller
- Range temperature from 0°C-60°C
- Range humidity from 10%-99% RH
- Separate Proportional Cool & Heat outputs (0-10VDC or 2-10VDC)
- Separate Proportional Humidifier and De-Humidifier outputs (0-10VDC or 2-10VDC)
- Adjustable temperature differential (0.5°C-1.5°C) and dead-zone (0.5°C-2.5°C)
- Adjustable humidity differential (0.5%-3.0% RH) and dead-zone (0.5%-5.0% RH)
- Automatic operation
- Works with Meitav-tec's GHU sensor- combined temperature and humidity sensor for room or duct

Wiring diagram



FMH-FC-SUPER3

Flush-Mount, 230VAC or 110VAC Thermostat for all Fan Coil applications, with special input.

The FMH-FC-SUPER3 series allows users the flexibility of having one main controller for most Fan Coil applications. It can be flush-mounted or installed directly into the Fan Coil, with an external sensor for the return air.

The FMH-FC-SUPER3 also offers a special input for 1 of 4 options:

- 1- Auto-change over sensor, where the incoming water temperature dictates the Mode.
- 2- Contact input for a remote switch, which changes the Mode of one or many thermostats linked together.
- 3- Contact input for a remote switch, which activates Economy mode.
- 4- Contact input to Turn OFF units.

Features

- Flush-Mount, 230VAC or 110VAC, Thermostat
- Can be connected to:
 - * 4 pipe system – 2 valves
 - * 2 pipe system – 1 valve
 - * Fan Coil – no valve
- DIP switch control options:
 - * Manual Cool/Heat or Auto-Change
 - * Display for set temperatures only
 - * Fan/Auto Fan or all time Auto Fan – selectable
 - * Internal / External sensor
- Lock buttons – password protected
- Set point limits – password protected
- Unit 'On' 'Off' Timer'

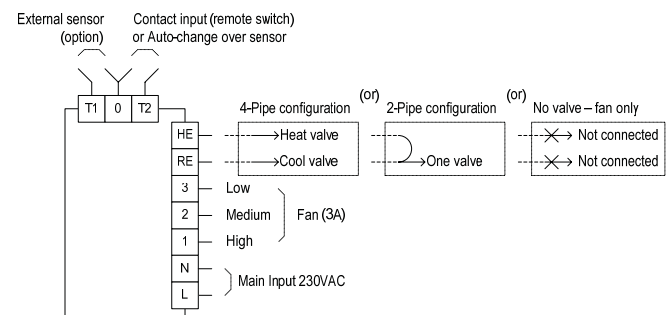


- Special Input for:
 - * Auto-change over sensor - mode is set based on temperature of the incoming water flow, ideal for 2-pipe systems.
 - * Contact input for a remote switch, which sets the mode of one or more thermostats linked together (available only for 2-pipe systems).
 - * Contact input to activate Economy Mode - unit reverts to pre-determined economy set points
 - * Contact input to turn the unit Off
- Energy saving – cost efficient, environmental friendly thermostat
- Available in different colors

Models

FMH-220-FC-Super3	220VAC
FMH-110-FC-Super3	110VAC

Wiring diagram



FMH220-P-FC-SUPER

Flush-mount, 220VAC thermostat, with 0-10V proportional outputs for Fan-Coil valves and 3 Fan speeds

The FMH220-P-FC-SUPER is a highly versatile thermostat for Fan Coil applications. With numerous configuration options, it is an ideal solution for wholesalers to keep on stock and supply the proper configuration according to customer's specifications.



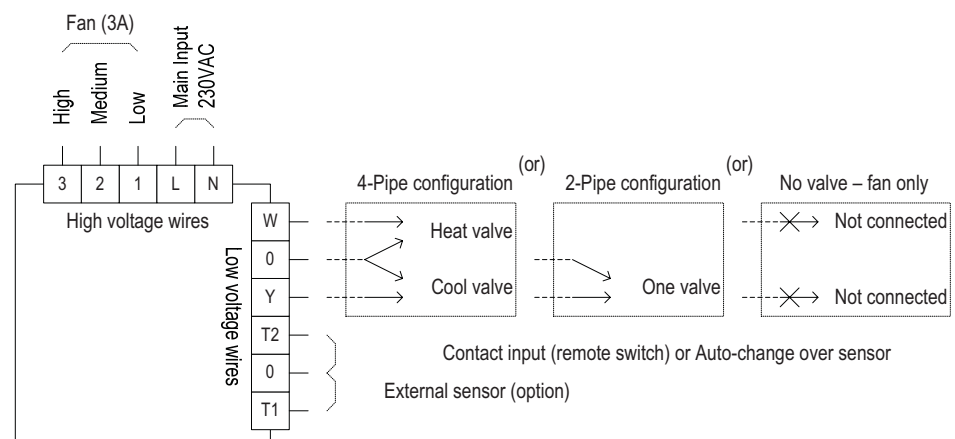
This superior, energy saving thermostat offers 2 proportional outputs for Cool & Heat, with a configurable, proportional opening. It also enables choosing various configuration options using DIP switches, to suit to customer's requirements. For example, seller can configure it to a 2-Pipe or a 4-Pipe application, with or without Auto-Change-Over mode, 1 or 3 fan speeds, or alternatively, internal / external sensor. Other important features, such as Economy mode, temperature offset, dead zone and set point limits are also adjustable.

This versatility makes the FMH220-P-FC-SUPER the ultimate choice for comfortable, easy temperature control for Fan-Coil.

Features

- Flush mount, 220VAC thermostat (available also in 110VAC model)
- Applicable for various Fan Coil applications: 2 pipe / 4 pipe – DIP switch selectable
- 2 separate proportional outputs for Cool and Heat (configurable, proportional opening -0-10V)
- Auto change over sensor or contact input – DIP switch selectable
- 1 or 3 fan speeds – DIP switch selectable
- With / without Auto-change-over mode – DIP switch selectable
- Always Auto-Fan /Auto-Fan selectable – DIP switch selectable
- Set point & room temp. display / set point temp. only – DIP switch selectable
- Internal / External Temperature Sensor – DIP switch selectable
- Hand held remote control – option
- Timer – ideal when you are asleep or away
- Adjustable set point limits - 10°...30°C
- Economy mode
- Lock buttons – option
- Offset – adjustable
- Beeping pushbuttons - optional

Wiring diagram



MIGA1-FC-SUPER

Main Controller for Fan Coil applications, with optional hand-held remote control +IR panel, or wall or flush mount panels.

MIGA1-FC-SUPER is a main controller for various F/C applications. Together with a wall or flush mount thermostat panel or receiver and a remote control - this controller becomes highly attractive and an ideal 'general purpose controller'.

MIGA1-FC-SUPER has a modular, user-friendly design with various F/C applications built-in, field selectable. This modularity allows you to have one main controller for different F/C applications and suit it according to customer's needs on the spot.

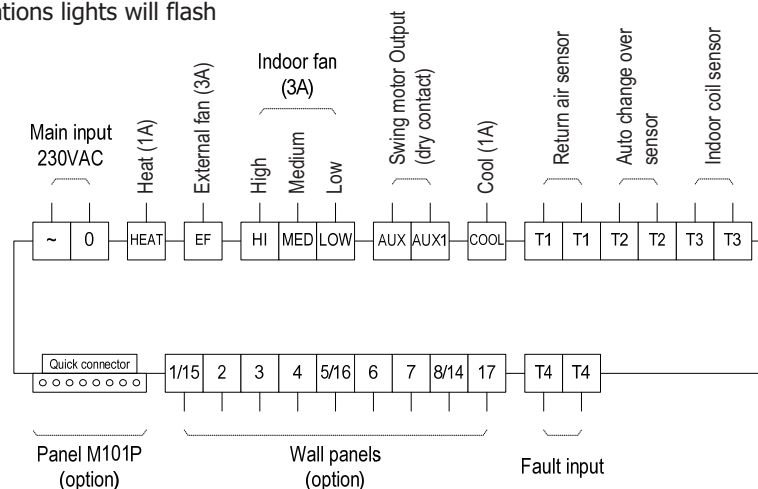
Meitav-tec's best seller for years – highly reliable and user friendly both for installers and customers.



Features

- Main Supply – 230VAC
- Various F/C application, jumper selectable:
 - * 2 pipe systems
 - * 4 pipe systems
- No valve systems
- T1 – Return Air Sensor
- Auto-Change Over sensor (for 2-pipes) - $T2 < 20^{\circ}\text{C}$ – Cool, $T2 > 20^{\circ}\text{C}$ – Heat - Option
- Indoor coil sensor - $T3 > 30^{\circ}\text{C}$ – Fan starts $T3 < 27^{\circ}\text{C}$ Fan stops - Option
- Fault input, dry contact – when contact opens, unit turns off and warning, indications lights will flash
- Auto-Fan in Heat and Fan-On in Cool / Fan in no valves – jumper selectable
- 3 fan speeds
- Wall or flush mount thermostats – option
- Hand-Held Remote Control + IRP or sticker panel – option
- Swing motor output - dry contact
- Pump output – active in Cool mode
- Timer – Start/Stop, programmable from R.Control

Wiring diagram



ETN-MIGA-IR

User interface for MIGA1 main board, with IR option

The ETN-MIG-IR is a convenient user-interface for the MIGA1 main board. It is a wall mount, local control panel with an infra-red receiver option, making it ideal for any end-user.

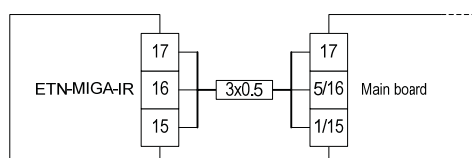
The ETN-MIG-IR is a smart looking thermostat panel with a soft aesthetic shape and a large, easy to read LCD display.



Features

- Easy connection to MIGA1 main board (3 wires only!)
- Local Control of:
 - * ON/OFF
 - * Mode
 - * Fan Speed
 - * ON/OFF Timer
- Energy Saving – cost efficient, Environmental Friendly logic
- Large, easy to read display
- Soft, silicon pushbuttons
- Neutral, aesthetic color

Wiring diagram



FMH-MIGA-IR

Flush mount, thermostat panel, serving as a user interface for Meitav-tec's MIGA1 main board, with an IR receiver option.

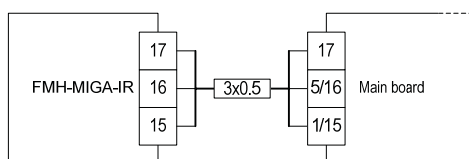
The FMH-MIGA-IR is a flush mount, thermostat panel, functioning as a user interface for MIGA1 main board.

It is a convenient local control panel with an infra-red receiver option, making it ideal for any end-user. The FMH-MIGA-IR is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display.

Features

- Flush mount, 12VDC thermostat
- Easy connection to MIGA1 main board (3 wire only!)
- Local Control of:
 - * On/Off
 - * Mode
 - * Set point temperature
 - * Fan Speed
- Modes: Cool / Heat /Auto /Fan only
- 3 fan speeds + Auto
- Temperature set point limits – 10...30°C
- IR option
- Real time clock and day
- Large & easy to read display
- Silicon rubber key pads
- Simple & friendly setting

Wiring diagram



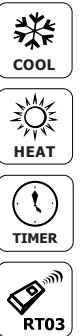
M1P

IR Sticker Receiver Panel for MIGA1 main board

The M1P is a wall mount, infrared sticker receiver panel, with a quick connector to MIGA1 main board.

It can be locally controlled via its On/Off button, or via an IR Remote Control (RT03).

The M1P can be supplied with an 80cm extension cable



Features

- Easily connected to MIGA1 main board using a quick connector
- Locally Controlled:
 - * On/Off
- Remotely Controlled:
 - * On/Off
 - * Mode
 - * Fan Speed
 - * On/Off Timer
- LED Indications:
 - * ON/OFF
 - * Timer
 - * Power
 - * Heat/Cool
- Suitable for Meitav'tec's MIGA controllers

M101P

Plastic Panel Receiver for MIGA1 main board

The M101P is a wall mount, infra-red receiver panel, with a cable connector to MIGA1 main board.

It can be locally controlled via its On/Off button, or via an IR Remote Control (RT03).



Features

- Easily connected to MIGA1 main board
- Locally Controlled:
 - * On/Off
- LED Indication for Fault / Alarm
- Suitable for Meitav-tec's MIGA controllers
- Remotely Controlled:
 - * On/Off
 - * Mode
 - * Fan Speed
 - * Temperature set-point Auto-Fan
 - * Timer
 - * Real Time Clock

FMH-FC-SUPER4

Flush-Mount, 230VAC or 110VAC Thermostat for all Fan Coil applications, with a special contact input.

The FMH-FC-SUPER4 is a highly versatile thermostat suitable for various Fan Coil applications. It can be flush-mounted or installed directly into the Fan Coil, with an external sensor for the return air and water temperature.

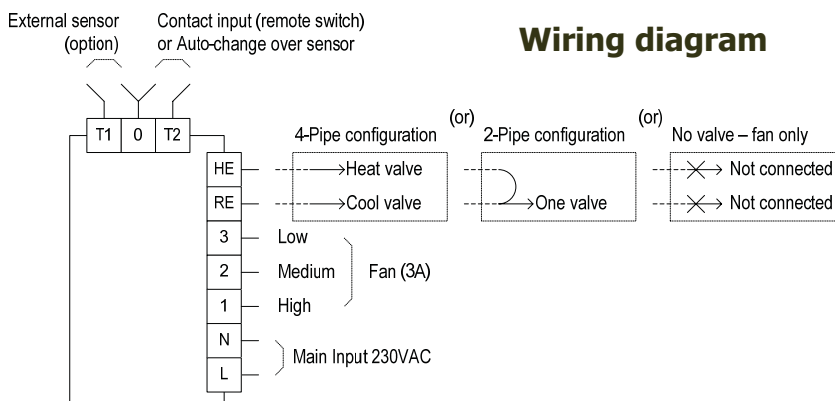
The FMH-FC-SUPER4 also offers several DIP Switch selectable options to best suit customer's needs, e.g. Auto-Change-Over sensor, Soft-start for fan or a Contact Input.

When the special contact input is selected, it allows 1 of 3 options:

- 1- Contact input for a remote switch, which changes the Mode of one or many thermostats linked.
- 2- Contact input for a remote switch that activates Economy mode.
- 3- Contact input to turn units off.

Features

- Flush-Mount, 230VAC or 110VAC, Thermostat
- Suitable to various Fan Coil systems:
 - * 4 pipe system – 2 valves
 - * 2 pipe system – 1 valve
 - * Fan Coil – no valve
- Modes: Cool, Heat, Auto, Fan Only
- 3 fan speed control + Auto
- DIP switch control options:
 - * Auto-Change-Over sensor & Fan Soft-Start in Heat / Contact input
 - * Display of set temperatures only / Display of set-point & room temp.
 - * Always Auto-Fan / Auto-Fan selectable
 - * With / without Auto-Change-Over mode
 - * Internal / External sensor
- Auto-change over sensor - mode is set based on temperature of the incoming water flow, ideal for 2-pipe systems.
- Special Contact Input (remote switch - close/ open) can be set to work in one of the following modes:
 - * Mode selection – remote switch sets the mode (Cool/Heat) to one or more thermostats linked together (ideal for hotel bedrooms or offices).
 - * Economy Mode - unit reverts to pre-defined economy set points
 - * Contact input to turn the unit Off
- Soft-Start logic in Heat for the Fan – adjustable delay time
- T2 soft-start in Cool & Heat – adjustable temperature to start fan
- Cool/Heat temp. Dead Zone setting
- Energy saving – cost efficient, environmental friendly thermostat
- Offset - $\pm 6^{\circ}\text{C}$
- Lock buttons – option
- Set point limits – $10^{\circ}\text{...}30^{\circ}\text{C}$
- Remote control– optional (RT03)



Models

Model

FMH-220-FC-Super4

FMH-110-FC-Super4

MIGA AB

MIGA AB enables control of multiple fan-coil controllers, linked one to another, via a main panel. Ideal for open space applications, where all controllers need the same working parameters.

MIGA-AB controller is a smart, cost effective solution for multiple fan-coil control. ETN/MIGA AB master panel allows control of up to 60 MIGA controllers, which need the same working conditions. Each MIGA board controls temperature according to the orders received from the master ETN/MIGA AB, but works according to its local ambient temperature, measured by its temperature sensors.

It is, therefore, a great solution for open spaces, such as banks, large stores and similar applications where one set of parameters suits all fan-coil units.

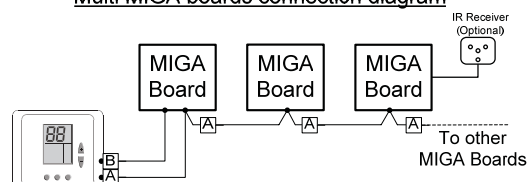
MIGA AB, together with a wall or flush mount panel, is a convenient, easy way to operate numerous fan coil controllers.

Features

- Main Supply – 230VAC
- Various F/C applications, jumper selectable:
 - * 2 pipe systems
 - * 4 pipe systems
- 3 fan speed control
- Modes: Cool, Heat, Auto, Fan Only
- Mode is selected from master panel to all boards
- Communication to other MIGA boards
- T1 – Return Air Sensor
- T3- Soft-Start in Heat sensor
- When T3 is not connected, Auto-Fan mode in Heat is active, Auto-Fan in Cool is inactive
- Condensing Pump output
- Air Mixing algorithm in Heat (when set-point $\geq$ ambient temp.)
- DIP switch selectable options in **ETN1000/MIGA/AB panel:**
 - * Lock / Unlock panel buttons
 - * On-Off / Start-Stop configuration
 - * Read ambient Temp. from panel / MIGA
 - * T-set + T ambient Display / T-set display only
 - * Standard work / Technician work
- Optional panels for Master: Wall / flush-mount
- Optional panels for slave: wall-mount, IR receiver (can override the main panel command (Last operation rules).
- Remote Control (RT03)
- Daily, Start-Stop timer (from remote control only)
- Economy T-set in Cool & Heat – adjustable
- Offset - $\pm 6^{\circ}\text{C}$
- Set point limits - $10^{\circ}\dots 30^{\circ}\text{C}$
- Dead Zone, adjustable - $1\dots 5^{\circ}\text{C}$
- In 2-pipe systems, Aqua-Stat should be used between the valve outputs and the valve
- DIP switch selectable options in **WP2500/MIG/WS panel:**
 - * On-Off / Start-Stop configuration
 - * Read ambient Temp. from panel / MIGA
 - * T-set + T ambient Display / T-set display only
 - * Standard work / Technician work

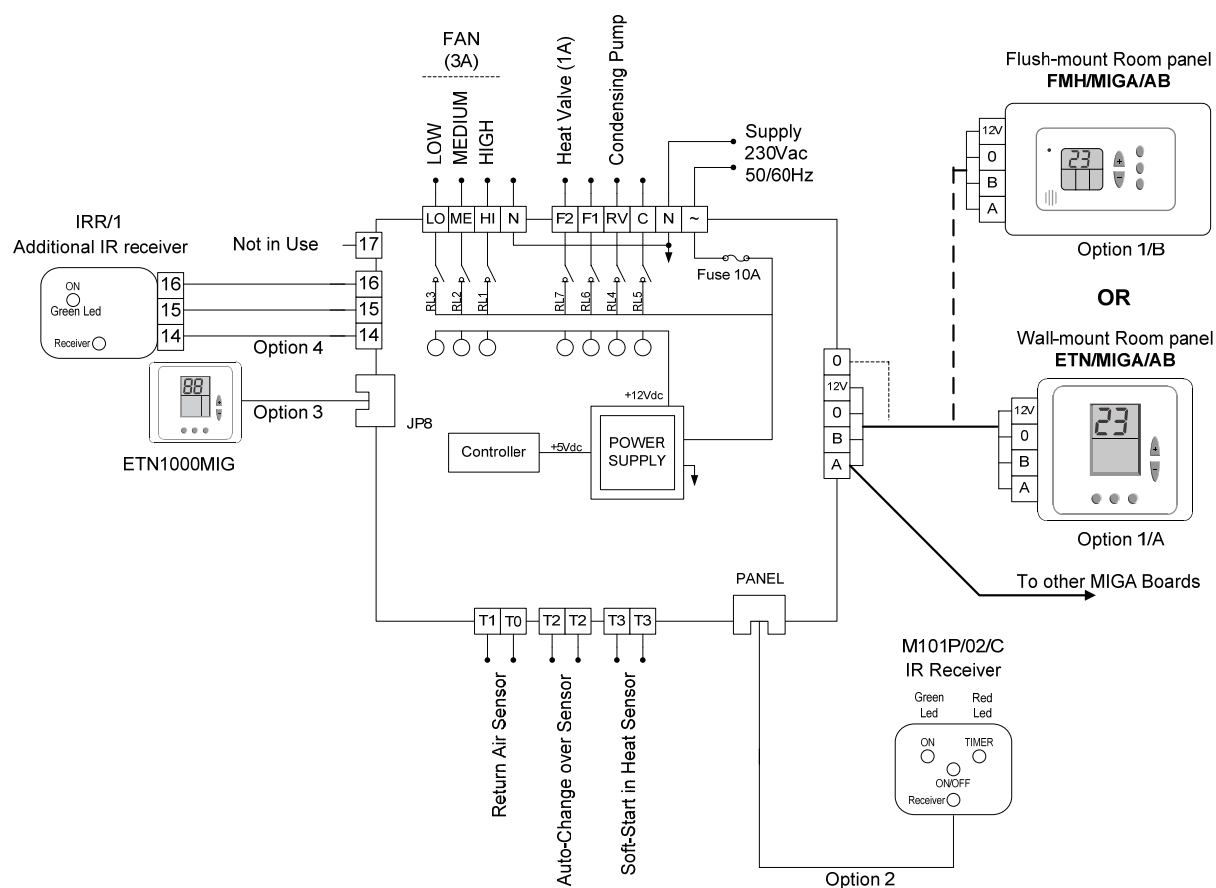


Multi MIGA boards connection diagram



MIGA AB

Wiring diagram



MIGA1-AC-SUPER

Main Controller for A/C applications, with optional hand-held remote control +IR panel, or wall or flush mount panels.

MIGA1-AC-SUPER is a main controller for various A/C applications. Together with a wall or flush mount thermostat panel or a receiver and a remote control - this controller becomes highly attractive, an ideal 'general purpose controller'.

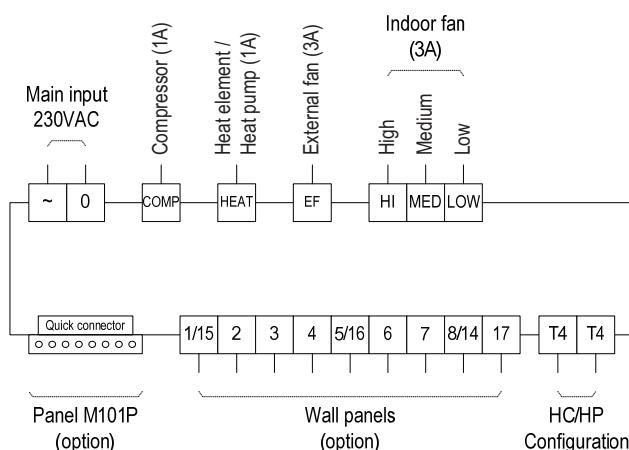
MIGA1-AC-SUPER has a modular, user-friendly design with various A/C applications built-in, field selectable. This modularity allows you to have one main controller for different A/C applications and suit it according to customer's needs on the spot.

Features

- Main controller for multi AC applications
- Main Input- 230VAC
- Jumper selectable applications
 - * Heat Pump (reversible)
 - * Heat-Cool
- External sensor – option
- Return air sensor (T1)
- Outdoor coil sensor (T2) option –in Heat mode, de-icing
- Indoor coil sensor (T3) option – in Cool mode, de-icing
- 3 Fan speeds and Auto Speed
- Auto Fan – selectable
- External fan output – option
- Wall or Flush mount thermostats, Sticker Panel or IRP - option
- IR remote control - option
- Timer – Start/Stop, programmable by remote control
- C° temperature display



Wiring diagram



MCU

Master Control Unit for stand alone applications or Maxinet Router for up to 60 thermostats

The MCU is a Master Control Unit for stand-alone applications to control up to 60 thermostats or software applications. It is also applicable as a router for large network applications in **Maxinet B.M.S.**, or just for simple divisions in installations such as floors or large buildings. The MCU has an emergency weekly program that is activated automatically when the software is down. In addition, the MCU has a large display and pushbuttons to view and change units in the network. It allows broadcasting commands to all the units with a push of a button.

Overall, the MCU offers features and solutions for the modern HVAC BMS market.



Features

- View and change units in the network
- Easy to change each unit settings:
 - * Mode
 - * Fan speeds
 - * Set temperature
 - * Set temperature limit
 - * On/Off
- Energy Saving – cost efficient, Environmental Friendly built-in logic
- Emergency Weekly Program (EWP) , automatically activated when software is down
- Weekly program for 7 days, with 2 times start-stop time and set for each period when working as stand alone master
- Connect up to 12 MCUs to one Maxinet software
- DIP switch selection for stand alone or software application

ETN-C-24-SUPER-Maxinet protocol

Wall mount, 24VAC thermostat for MaxiNet BMS system

The ETN-C-24-Super is an attractive thermostat for easy HVAC control with MaxiNet BMS system.

Having most A/C applications built-in, field selectable and offering several stages of Cool and Heat and, the ETN-C-24-Super is suitable for either Heat/Cool or Heat Pump systems.

This flexibility, together with built in Maxinet protocol and energy saving algorithm make the ETN-C-24-Super an easy, cost-effective solution for networking in small to medium sized BMS.



AC

COOL

HEAT

1 SPEED

B.M.S
COMPATIBLE

COMM

°C / °F

ECONOMY

COMPRESSOR
DELAY

EXT.
SENSOR
OPTION

HP / HC

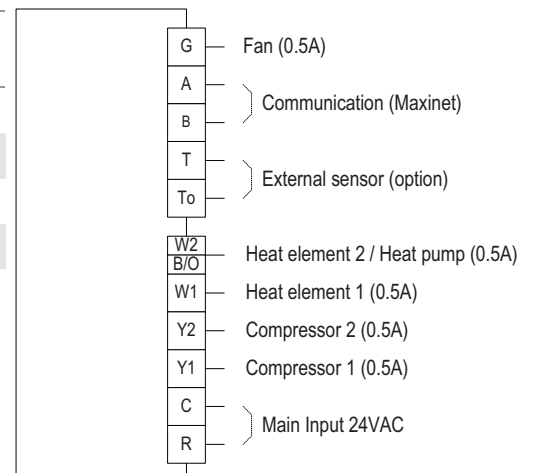
Features

- Wall mount, 24 VAC thermostat
- DIP switch selectable applications:
 - * Heat/Cool or Heat Pump
 - * Electric Heat or Oil/Gas
 - * Heat Pump in Heat or Heat Pump in Cool
- MAC address configuration via DIP switches
- MaxiNet Communication Built in
- Up to 3 stages for Heat & 2 stages for Cool
- External sensor- option
- Selectable temperature scale - °C or °F
- Set Point limits- 10...30°C, 50...86°F
- Economy mode
- Easy to install and use

Models

Model	Heating Stages	Cooling Stages	Speeds
ETN-C-24-HC11-1S	1	1	1
ETN-C-24-HC22-1S	2	2	1
ETN-C-24-HP11-1S	1	1	1
ETN-C-24-HP21-1S	2	1	1
ETN-C-24-HP32-1S	3	2	1

Wiring diagram



PS1800- Main controller - MaxiNet protocol

Main Controller for A/C and Fan coil in Building Management System (BMS) application, with Maxinet protocol

The PS1800 Family consist of main controllers, with MaxiNet Protocol, for A/C and Fan Coil MaxiNet BMS applications. It has a modular, user-friendly design with various A/C or Fan Coil applications built-in, field selectable. This modularity allows you to have one main controller for different A/C or Fan Coil applications and suit it according to customer's needs on the spot. The PS1800 Family also offers cost efficient capabilities, such as, occupancy sensor, and smart algorithm for maximum energy saving.

Each of the PS1800 controllers are factory pre-programmed to save valued time on field programming. Please note the PS1800 is also available as a CTU1800, with additional advanced features.

Features

- Main Input - 230VAC
- RS-485 Maxinet protocol
- Main controller for multi AC or Fan Coil applications
- Inputs
 - * 8 x Digital Inputs
 - * 3 x Temperature sensor inputs
- Outputs
 - * 8 x Digital Outputs
 - * 2 x 0-10VDC
 - * 3-wire 24VAC (Open – Common – Close)



- Wall or flush mount panels available
- MAC address 1-255 by DIP switch
- Occupancy Sensor - 12VDC supply
- Ambient Temperature reading from panel or from main board - selectable
- Celsius or Fahrenheit temperature display
- Lock pushbuttons - option
- Offset for temperature reading
- Set point limits - 10°...30°C , 50...86 °F

Available also in 24V configuration

Application

PS Fan-Coil controllers

FC-SUPER
P-FC-SUPER
PM2

PS Air Condition controller

AC-SUPER

Outputs operation

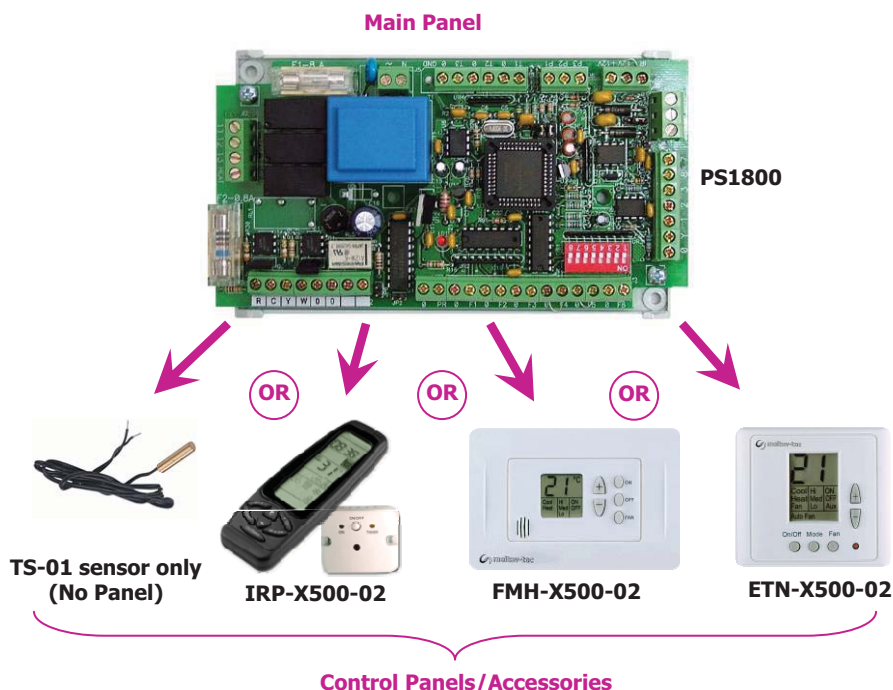
On/Off
0-10VDC proportional for Valve/Fan
3 wire (Open/Common/Close) 24VAC

Compressor & Heat Pump outputs



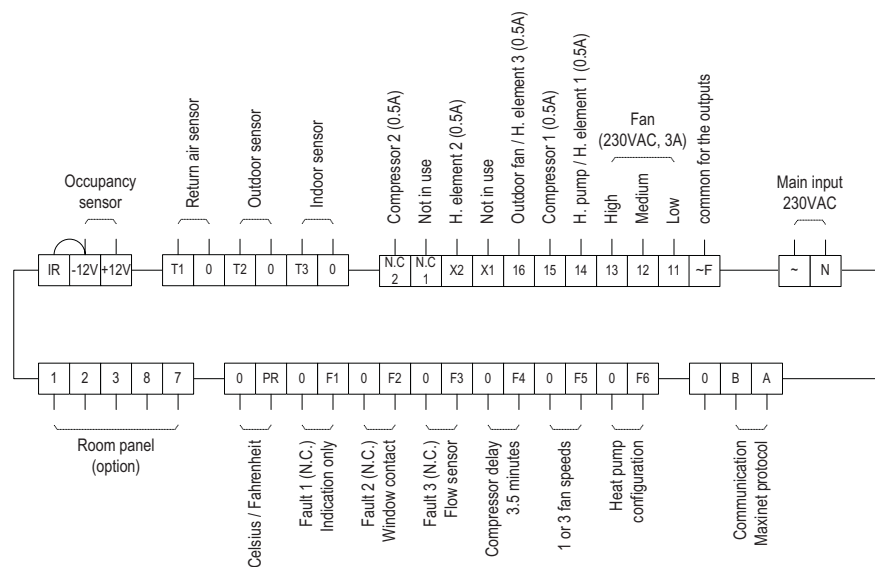
PS1800- Main controller - MaxiNet protocol

Configurations



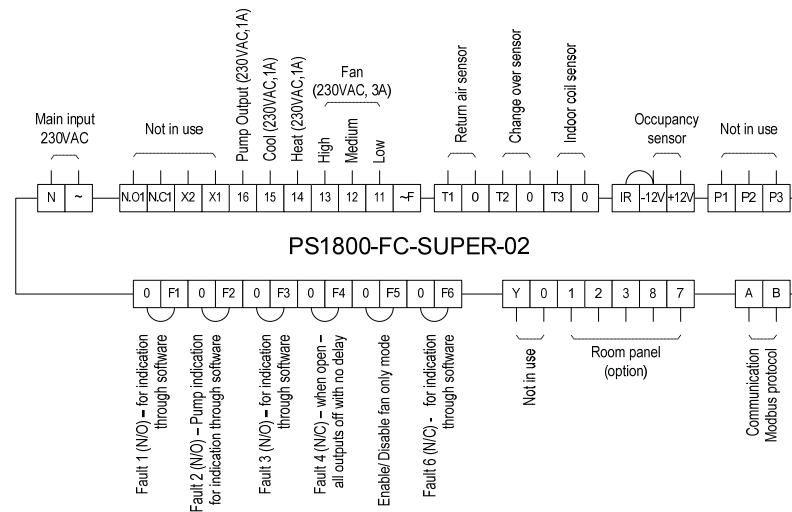
Wiring diagrams

PS1800-AC-SUPER-02

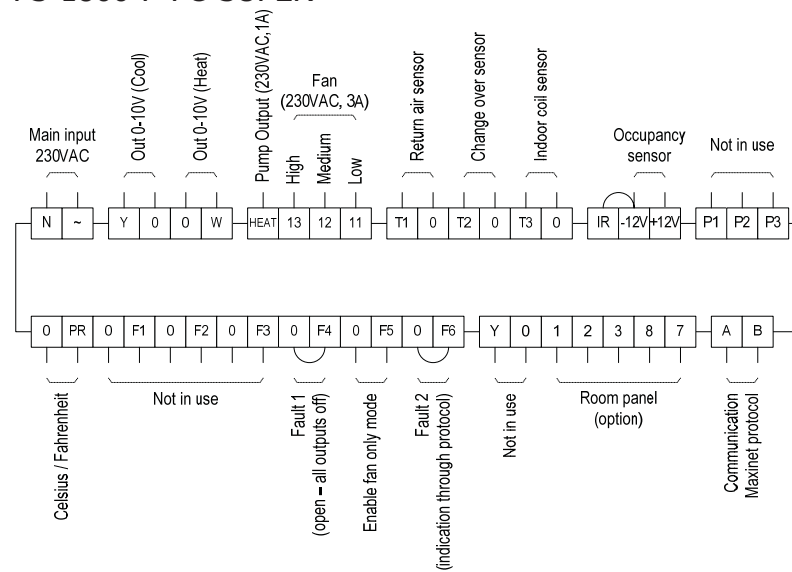


PS1800- Main controller - MaxiNet protocol

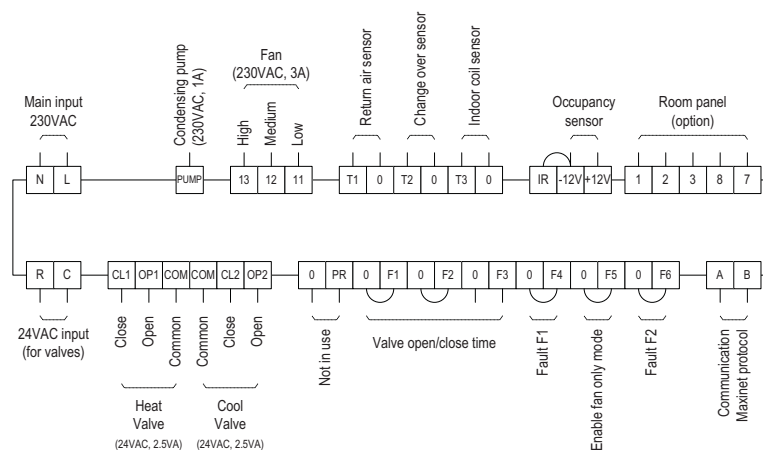
PS1800-FC-SUPER-02



PS-1800-P-FC-SUPER



PS-1800-PM2-FC-SUPER

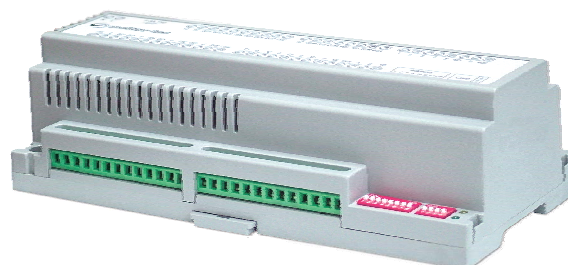


CTU1800- Main Controller B.M.S - Maxinet protocol

Main DDC Controller for Maxinet BMS application

The CTU 1800 are smart, ready to install controller, especially developed to work with the Maxinet SW. The CTU1800 family Pre-Programmed, "Plug and Play" to save valued time for the installers on site.

- Main Input- 230VAC , 110VAC or 24VAC
- RS-485 Communication port – proprietary Maxinet protocols.
- Panel interface to various designs Wall/flush mount/IR panels - optional
- Inputs
 - * 8 x Digital Inputs
 - * 2 x Analog inputs (0-10VDC)
 - * 3 x Temperature Sensor inputs
- Outputs
 - * 8 x Digital Outputs (24VAC 110VAC or 230VAC – based on the supply voltage)
 - * 2 x Analog Outputs (0-10VDC)
 - * 2 x 3-wire 24VAC (Open-Common-Close)
- 12VDC power supply for occupancy sensor
- Adjustable Set point limits for cooling and heating
- Offset – for temperature reading adjustment
- IR input
- 2 indication LEDs
- MAC address 1-255 by DIP switch
- 4 DIP switches for configuration purposes
- DIN rail connection
- CE certified
- Energy saving – cost effective, environmentally friendly controller


B.M.S
COMPATIBLE

COMM

FC

AC

COOL

HEAT

1/3
SPEEDS

0-10V
OUTPUT

AUTO FAN

HP/HC

AUTO
CHANGE-OVER

COMPRESSOR
DELAY

ECONOMY

FAULT
INPUT

EXT.
SENSOR
OPTION

RT03

°C / °F

CE

Application

CTU Fan-Coil controllers

FC-SUPER
P-FC-SUPER
PM2

CTU Air Condition controller

AC-SUPER
WSHP (Water Source Heat Pump)

Outputs operation

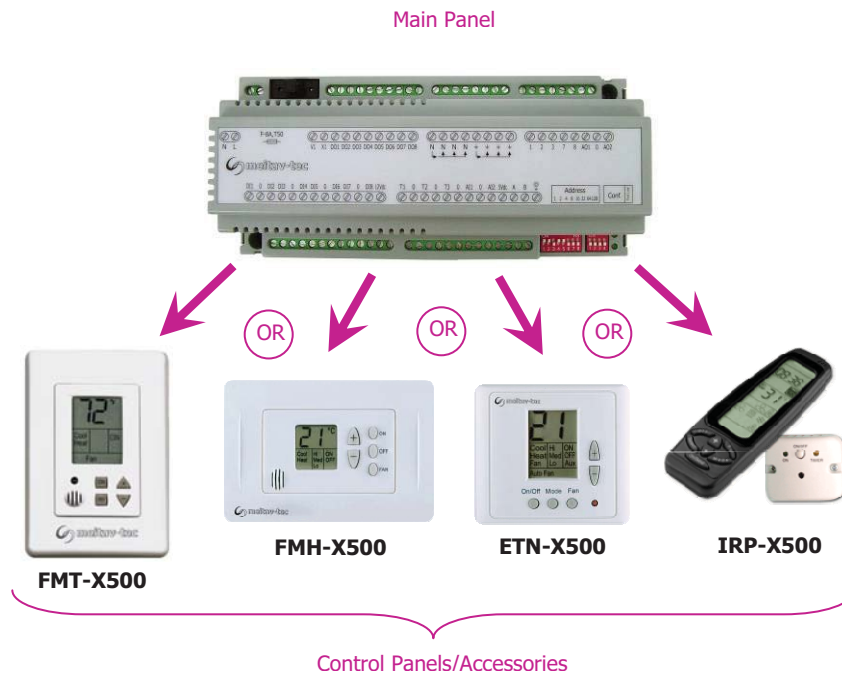
On/Off
0-10VDC proportional for Valve/Fan
3 wire (Open/Common/Close) 24VAC

Compressor & Heat Pump outputs

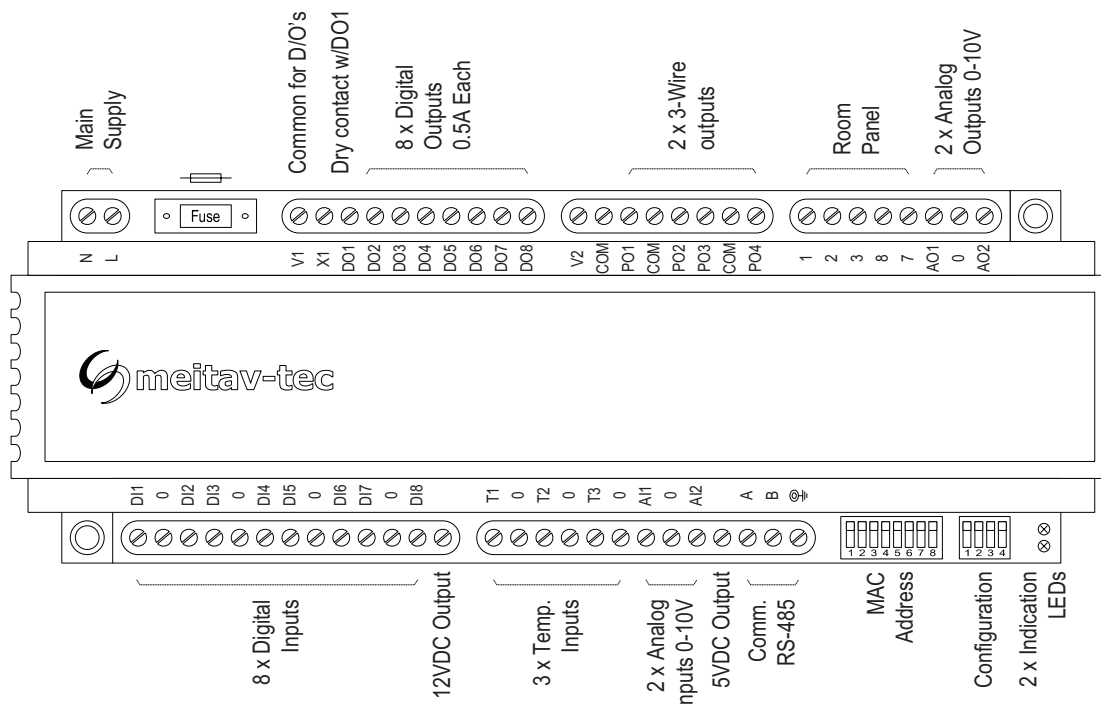
Compressor & Heat Pump

CTU1800- Main Controller B.M.S - Maxinet protocol

Configurations



Wiring diagram

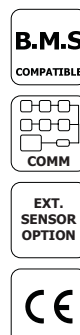
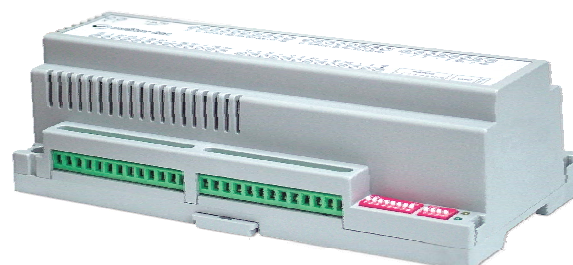


CTU1601 - Maxinet protocol

Input / Output card for Maxinet system with 8 outputs 230V, 8 inputs dry contact and 3 Temperature readings

The CTU-1601 is an Input / Output (I/O) card for Maxinet system. It has 8 inputs, dry contact to view the status of various devices, and 8 outputs 230V 0.5A, to manage general devices from the Maxinet software, such as:

- Air compressor
- Chiller
- Fresh air damper
- Lights
- Outdoor lights
- Extractors
- Fans



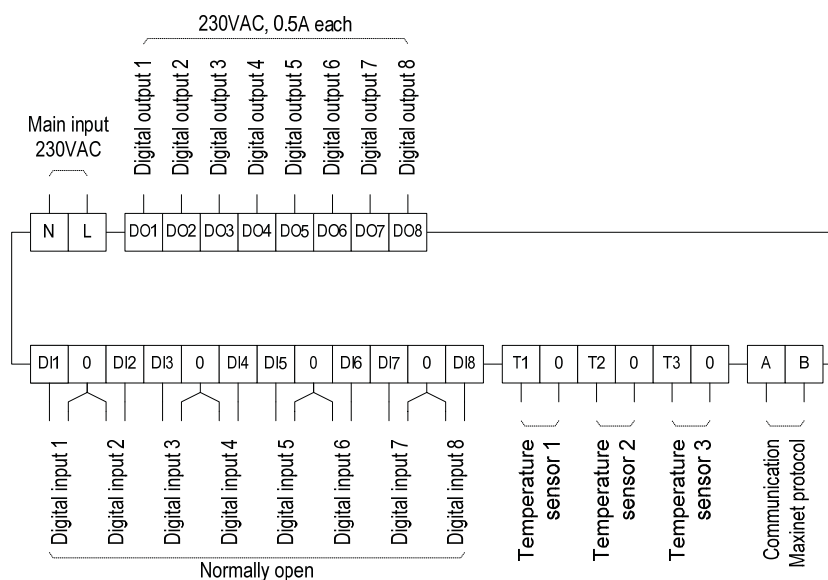
The 8 outputs can be weekly programmed from the software very easily. In addition, the CTU-1601 offers 3 Temperature sensor inputs, enabling to see temperatures in 3 locations.

Available also in 24VAC version

Features

- 8 Digital outputs – 230 V, 0.5 A
- 8 Digital inputs – volt free – dry contact
- 3 Temperature readings
- Works with Maxinet Software
- Easy connection to Din Rail

Wiring diagram



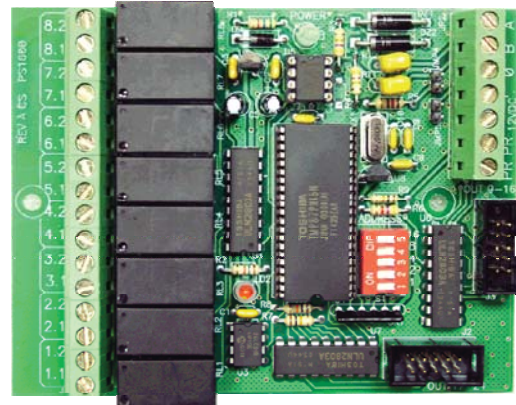
PS1600 - Maxinet protocol

Output card for Maxinet system, with up to 8 outputs – dry contact

The PS-1600 is an output card for Maxinet mini B.M.S. system. It has 8 outputs, dry contact, to control energy consuming devices / systems, connected to Maxinet system, such as:

- Air compressor
- Fresh air damper
- Lights
- Outdoor lights
- Extractors
- Fans

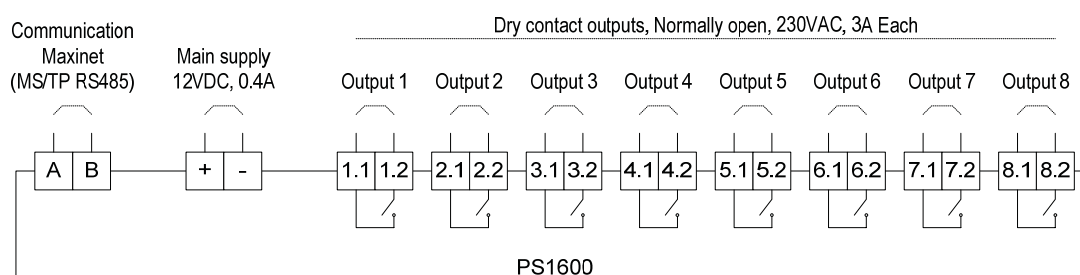
These outputs can be viewed, controlled and monitored from the Maxinet software and can also be easily weekly programmed.



Features

- 8 outputs - dry contact, normally open
- Up to 16 units per network
- Works with Maxinet Software
- 12VDC operating voltage
- PS201P as power supplier

Wiring diagram



PS2500/4500 Main Controller – BACnet/Modbus Protocol



Main Controller for A/C and Fan coil in Building Management System (BMS) application, with BACnet or Modbus protocol

The PS2500/4500 - Family consist of main controllers, with BACnet or Modbus Protocol, for A/C and Fan Coil BMS applications. It has a modular, user-friendly design with various A/C or Fan Coil applications built-in, field selectable. This modularity allows you to have one main controller for different A/C or Fan Coil applications and suit it according to customer's needs on the spot.

The PS2500/4500 - Family also offers cost efficient capabilities, such as, occupancy sensor, and smart algorithm for maximum energy saving.

Each of the PS2500/4500- controllers is factory pre-programmed to save valued time on field programming.

Please note the PS2500/4500 are also available as a CTU2500/4500, with additional advanced features.



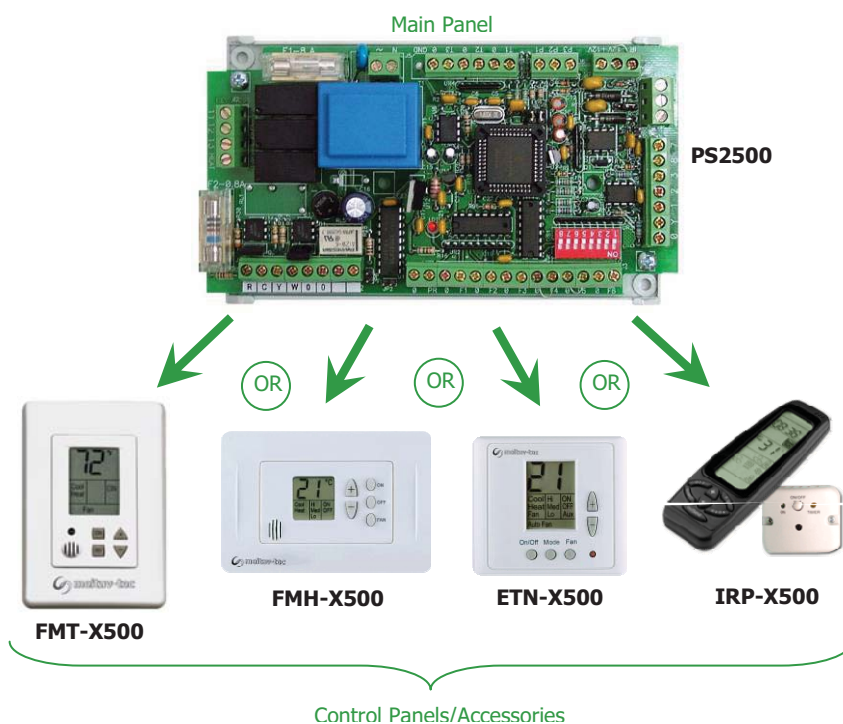
Features

- Main Input- 230VAC
- RS-485 communication port – Available in BACnet or Modbus protocols:
 - * PS2500 Family – BACnet protocol controllers
 - * PS4500 Family – Modbus protocol controllers
- Main controller for multi AC or Fan Coil applications
- Inputs
 - * 8 x Digital Inputs
 - * 3 x Temperature sensor inputs
 - * 2 x Analog inputs 0-10V
- Outputs
 - * 8 x Digital Outputs
 - * 2 x 0-10VDC proportional outputs
 - * Optional - 3-wire 24VAC (Open – Common – Close)
- Wall or flush mount panels available
- MAC address 1-255 by DIP switch
- Occupancy Sensor - 12VDC supply
- Ambient Temperature reading from panel or from main board - selectable
- Celsius or Fahrenheit temperature display
- Lock pushbuttons - option
- Offset for temperature reading
- Set point limits - 10°...30°C , 50...86 °F



PS2500/4500 Main Controller – BACnet/Modbus Protocol

Configurations



Application

CTU Fan-Coil controllers

FC-SUPER
P-FC-SUPER
PM2
TA2

CTU Air Condition controller

AC-SUPER

Outputs operation

On/Off
0-10VDC proportional for Valve/Fan
3 wire (Open/Common/Close) 24VAC
Thermal Actuator

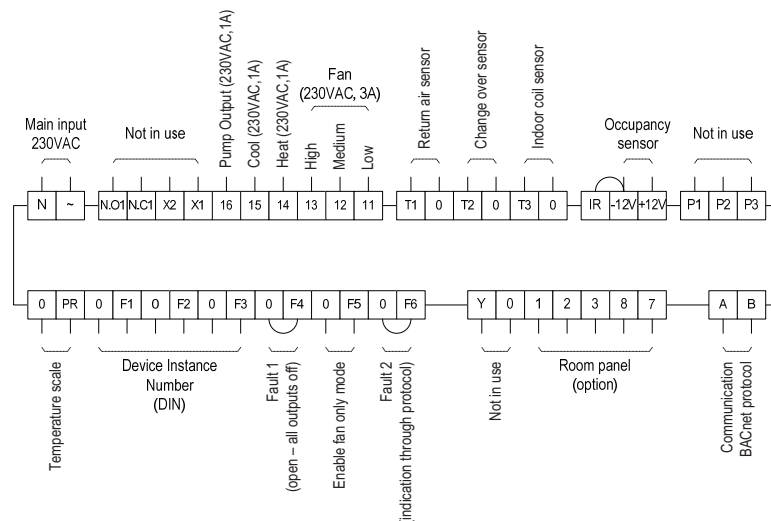
Compressor & Heat Pump outputs

PS2500/4500 Main Controller – BACnet/Modbus Protocol

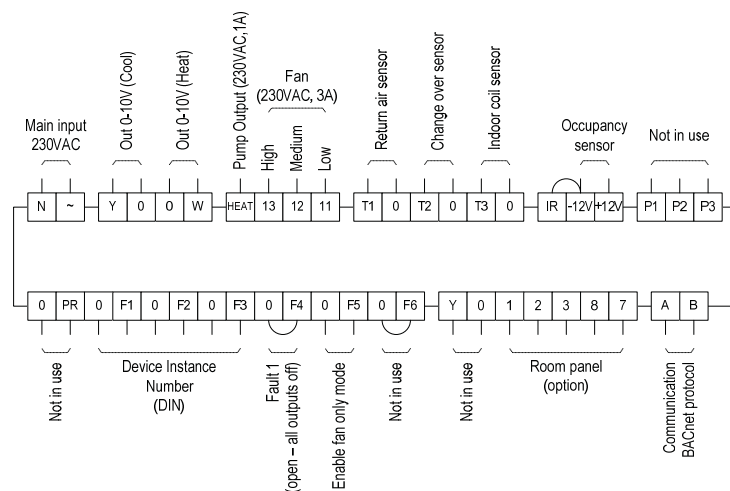
Wiring diagrams



PS2500-3S-FC-SUPER / PS4500-3S-FC-SUPER

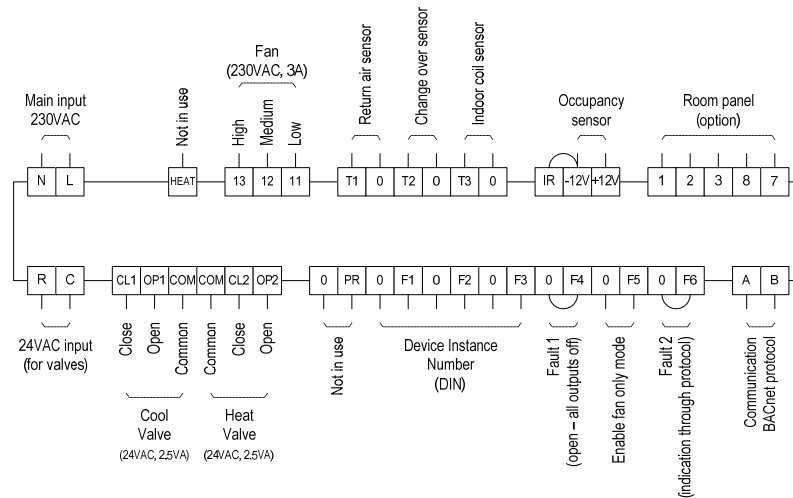


PS2500-P-3S-FC-SUPER / PS4500-P-3S-FC-SUPER

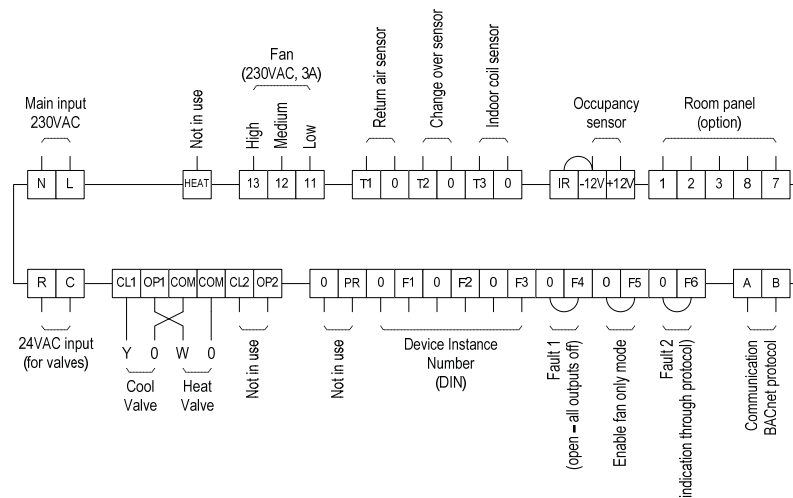


PS2500/4500 Main Controller – BACnet/Modbus Protocol

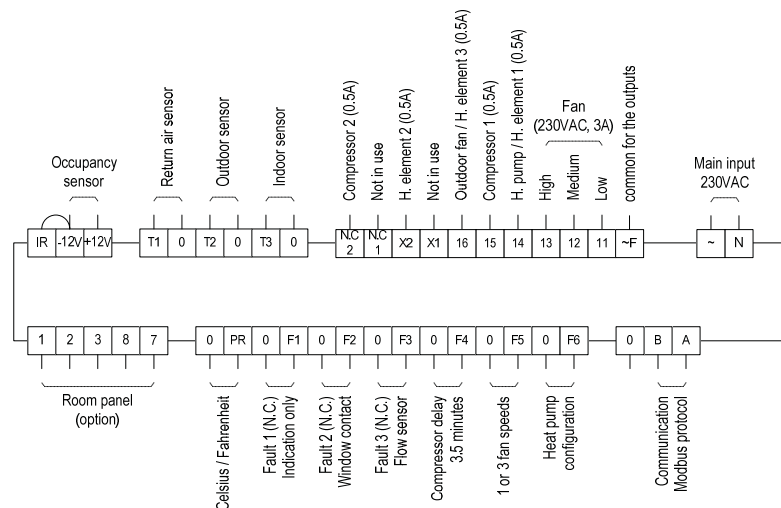
PS2500-PM2-3S-FC-SUPER / PS4500-PM2-3S-FC-SUPER



PS2500-TA2-3S-FC-SUPER / PS4500-TA2-3S-FC-SUPER



PS2500-AC-SUPER-02-WET / PS4500-AC-SUPER-02-WET



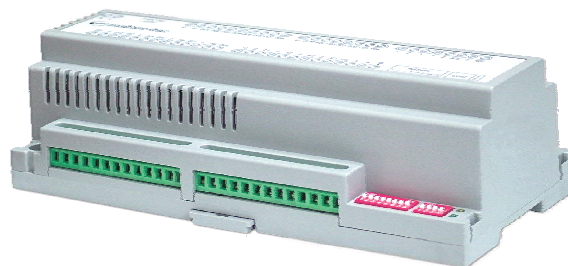
CTU2500/4500 Main Controller – BACnet/Modbus Protocol

Main DDC Controller for B.M.S application for A/C or F/C applications with BACNET or MODBUS protocols

The CTU2500/4500 family are smart, highly versatile controllers.

Meitavtec has especially developed this product to meet the need for a controller, readily implemented for customer's unique HVAC application.

The CTU2500/4500 - Family controllers are factory pre-programmed "Plug & Play" to save valued time for the installers on field programming.



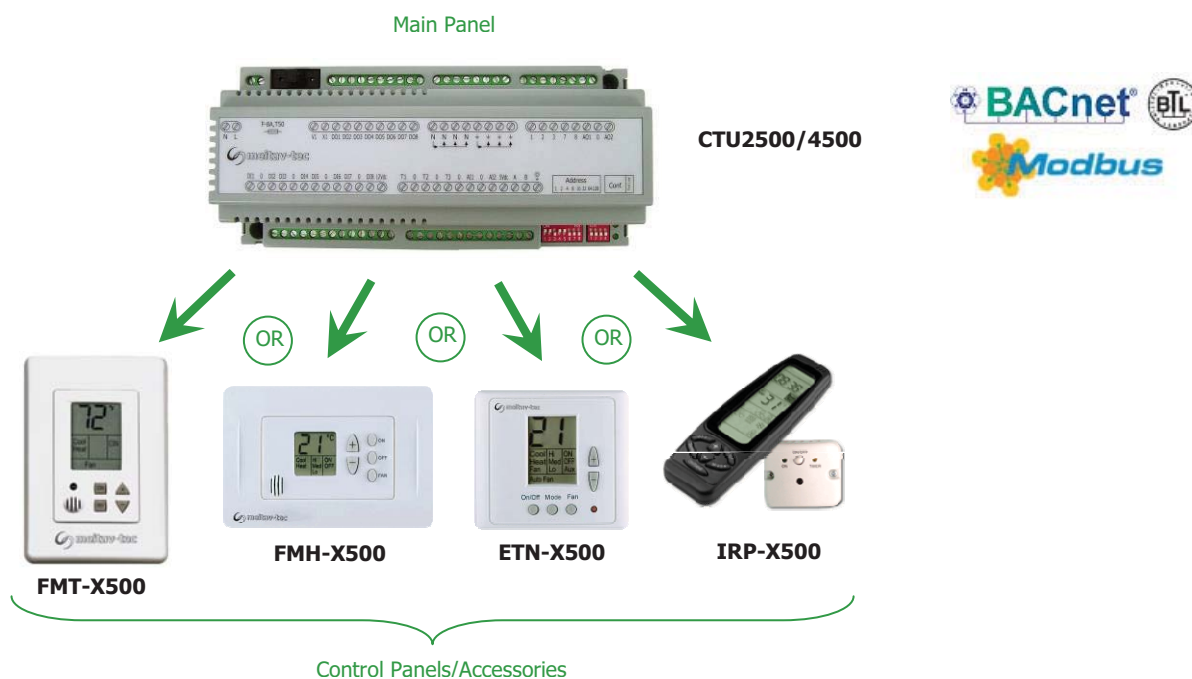
Features

- Main Input- 230VAC , 110VAC or 24VAC
- RS-485 communication port – Available in BACnet or Modbus protocols:
 - * CTU2500 Family – BACnet protocol controllers (BTL Certified)
 - * CTU4500 Family – Modbus protocol controllers
- Panel interface to various designs Wall/flush mount/IR panels - optional
- Inputs
 - * 8 x Digital Inputs
 - * 2 x Analog inputs (0-10VDC)
 - * 3 x Temperature Sensor inputs
- Outputs
 - * 8 x Digital Outputs (230VAC, 110VAC or 24VAC – depending on the supply voltage)
 - * 2 x Analog Outputs (0-10VDC)
 - * 2 x 3-wire 24VAC (Open-Common-Close)
- 12VDC power supply for occupancy sensor
- Adjustable Set point limits for cooling and heating
- Offset – for temperature reading adjustment
- IR input
- 2 indication LEDs
- MAC address 1-255 by DIP switch
- 4 DIP switches for configuration purposes
- DIN rail connection
- CE certified
- Energy saving – cost effective, environmentally friendly controller



CTU2500/4500 Main Controller – BACnet/Modbus Protocol

Configurations



Application

CTU Fan-Coil controllers

FC-SUPER
P-FC-SUPER
PM2
TA2

CTU Air Condition controller

AC-SUPER
WSHP (Water Source Heat Pump)

Outputs operation

On/Off
0-10VDC proportional for Valve/Fan
3 wire (Open/Common/Close) 24VAC
Thermal Actuator

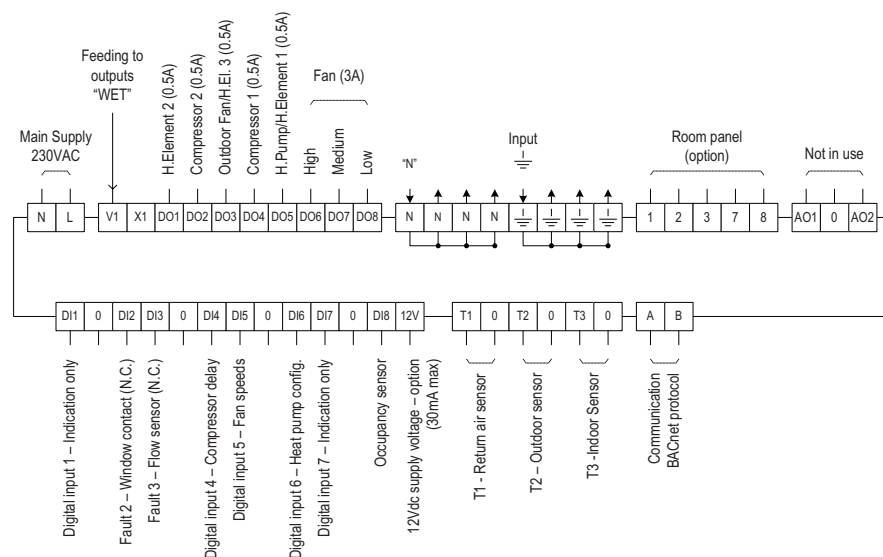
Compressor & Heat Pump outputs
Compressor & Heat Pump

CTU2500/4500 Main Controller – BACnet/Modbus Protocol

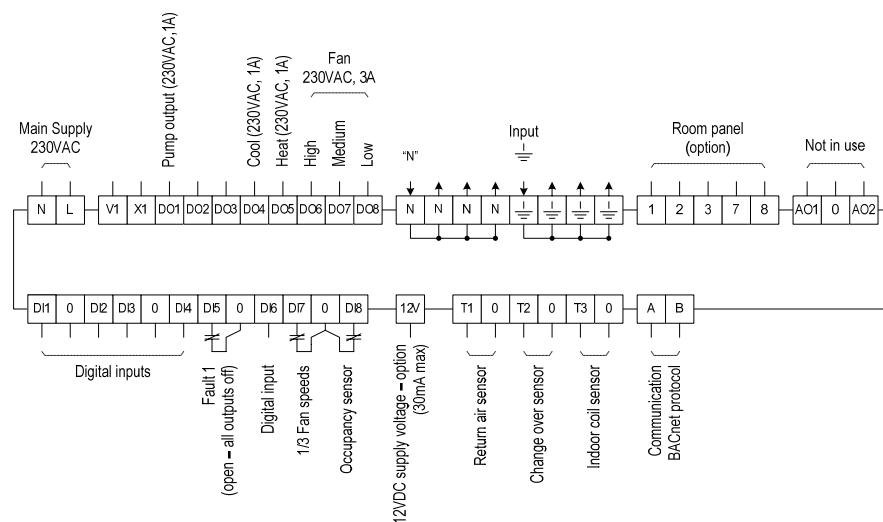
Wiring Diagrams



CTU2500-AC-SUPER-02-WET / CTU4500-AC-SUPER-02-WET

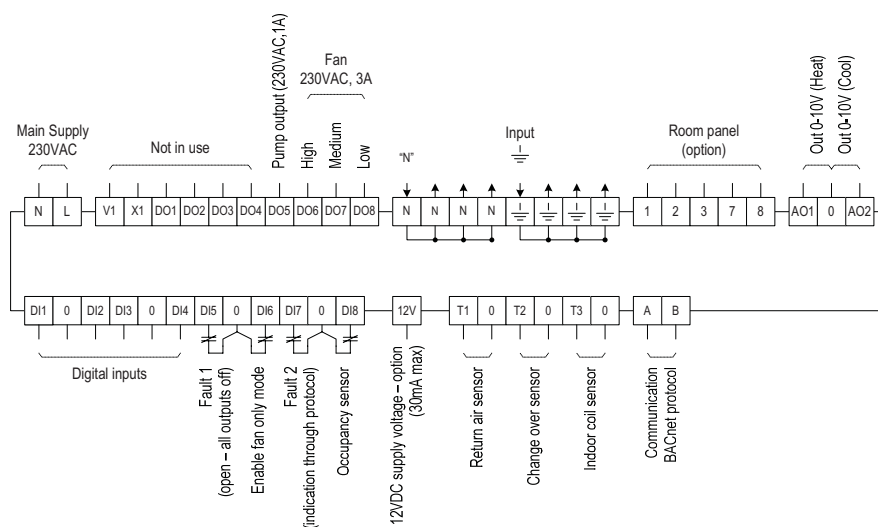


CTU2500-3S-FC-SUPER / CTU4500-3S-FC-SUPER

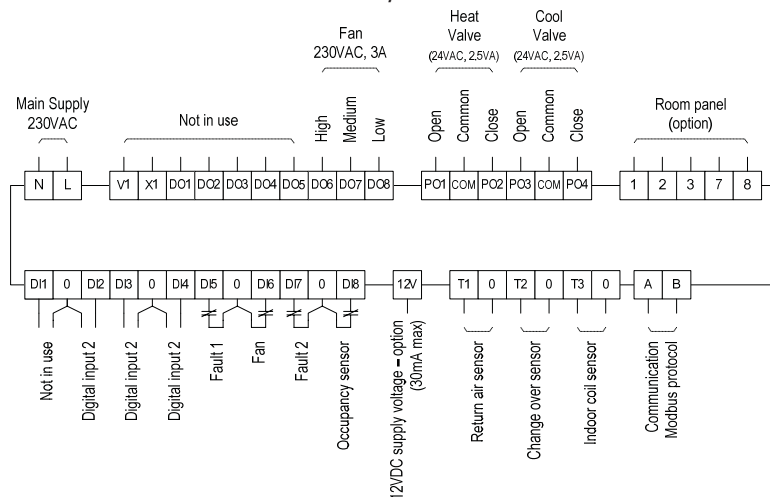


CTU2500/4500 Main Controller – BACnet/Modbus Protocol

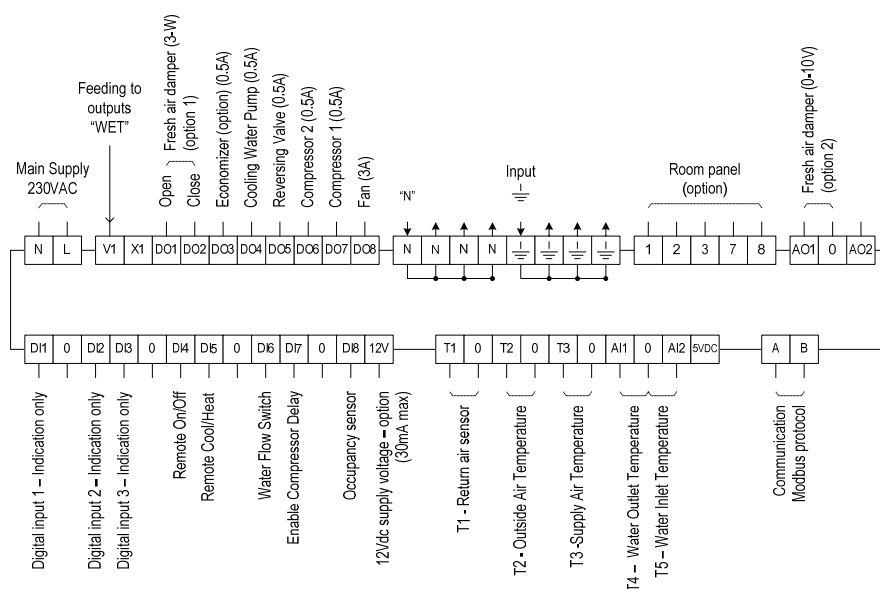
CTU2500-P-3S-FC-SUPER-02 / CTU4500-P-3S-FC-SUPER-02



CTU2500-PM2-3S-FC-SUPER-01 / CTU4500-PM2-3S-FC-SUPER-01



CTU4500-WSHP-WET-01



FMHC220-FC-MDB03 - Modbus RTU Protocol

Flush mount, 230VAC thermostat, for Fan Coil B.M.S. applications, with Modbus protocol

The FMHC220-FC-MDB03 is a highly versatile, stand alone thermostat, suitable for Building Management System application, with Modbus communication protocol.

With multiple, selectable modes of operation, the FMHC220-FC-MDB03 offers suitability to 2-Pipe, 4-Pipe or no valve Fan Coil system, electrical heating element option, and can function as either Cool/Heat or Cool Only thermostat.

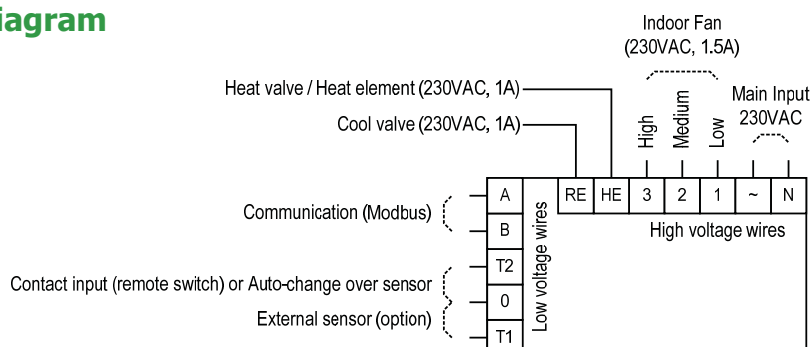
Using DIP switch, technician can select between applying Auto-Change-Over sensor, or alternatively utilizing a contact input for Economy mode to save energy. In addition, it offers the Auto-Fan feature to work at either Cool, or Heat or at both. Additional features, such as Set Point Temp. Limits, Dead Zone and Room Temperature Offset are all implemented and changeable.

Overall, the FMHC220-FC-MDB03 offers numerous options, nonetheless setting is simple and user friendly.

Features

- Flush mount, 230VAC thermostat
- 2 separate outputs for Cool & Heat
- DIP switch selectable options:
 - * Auto-Change-Over sensor or Contact input
 - * 2-pipe or 4-pipe system
 - * 1 or 3 fan speed control + Auto Speed
 - * With or without Auto-Change-Over mode
 - * Set point & room temp. display on LCD, or set point temp. display only
 - * Always Auto-fan or Auto-fan selectable
 - * Internal or external temperature sensor
- Modes: Cool/ Heat / Auto- Change-Over/ Fan Only
- Contact input changes to Economy mode or turns unit off (Optional)
- Cool Only thermostat – option
- Electrical heater - option
- Disable Fan operation – option (only in Cool, only in Heat, or in both)
- Set point limits – 10...30°C
- 3 Auto-Fan types:
 - * Auto-fan in Cool & Heat
 - * Auto-fan only in Cool
 - * Auto-fan only in Heat
- Password for protected setting
- Pushbutton beeper – option
- Hand held remote control (RT03) - option

Wiring diagram



FMHC220-P-FC-MDB01 – Modbus RTU Protocol

Flush mount, 230VAC thermostat, for Fan Coil B.M.S. applications, with proportional outputs for Cool & Heat, 3 Fan Speeds and Modbus interface

The FMHC220-P-FC-MDB01 is a distinguished, stand alone, proportional thermostat for 2-Pipe or 4-Pipe Fan Coil applications. Its Modbus communication protocol makes it also compatible for Building Management System (B.M.S.) applications.

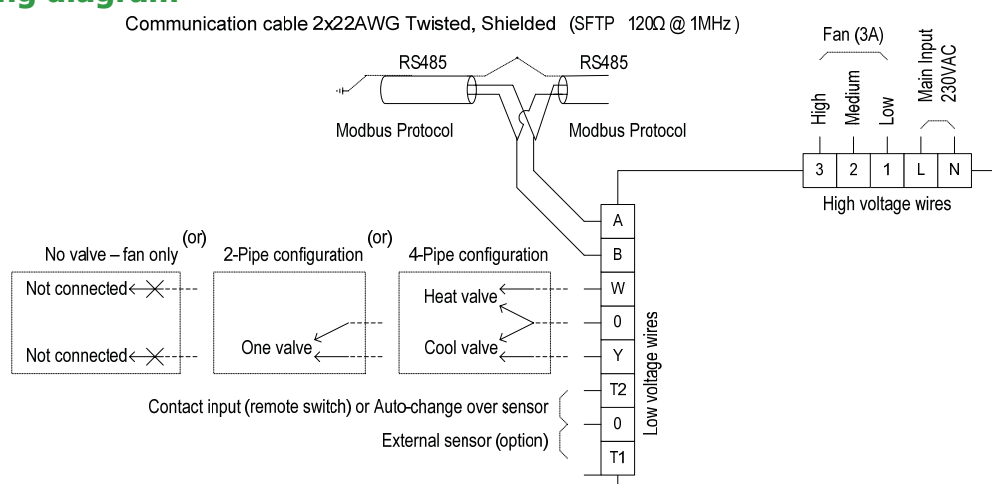
It offers modular, user friendly configuration to best suit customer's needs. Features, such as Set Point limits, dead zone or offset are adjustable while others as internal / external sensor 1 or 3 fan speed or auto-change-over are all selectable.

The FMHC220-P-FC-MDB01 is an esthetic, flush-mount thermostat which offers increased energy savings as well as comfort to the user.

Features

- Flush mount, 230VAC thermostat
- 2 proportional (0-10V) outputs for Cool & Heat
- Modes: Cool/ Heat / Auto- Change-Over/ Fan Only
- DIP switch selectable options:
 - * 2Pipe or 4Pipe Fan Coil
 - * 1 or 3 fan speed
 - * Auto-change-over sensor or Contact input
 - * With or without auto-change-over
 - * Set point & room temp. display or set-point temp. display only
 - * Auto-Fan
- Internal /External sensor
- Energy saving – cost efficient, environmental friendly thermostat
- Dead zone – 0...5°C
- Set point temp. limits – 10...30°C
- Offset – ±6°C
- Lock / un-lock thermostat pushbuttons
- Pushbutton beeper - option
- Programmable MAC address – 1...99 addresses – DIP switch configurable
- Fits into Gewiss box
- Remote control (RT03) - optional

Wiring diagram



ETN-X500

Wall mount, thermostat panel, serving as a user interface of a communicating controller, applicable for B.M.S (Building Management Systems)

The ETN-X500 is a wall mount, thermostat panel, functioning as a user interface of a communicating controller.

Having advanced communication capabilities, it is an ideal panel for B.M.S. applications.

Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor connected to the main board.

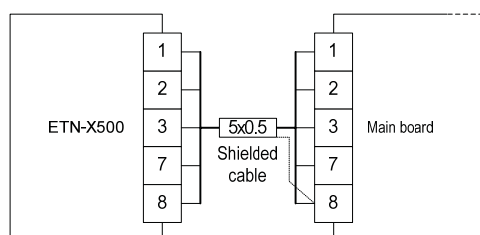
The ETN-X500 is a well designed room panel for Meitav-tec's communicating controllers, appreciated by architects worldwide.

Features

- Wall mount panel
- Built-in communication
- On /Off
- Set temperature
- Modes: Cool / Heat / Auto-Change-Over/Fan Only
- Auto-Fan
- 3 fan speeds
- Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor – DIP switch selectable
- Suitable for Meitav'tec's controllers
- Silicon rubber pushbuttons
- Large, easy to read display
- Various panel colors available



Wiring diagram



FMH-X500

Flush mount, thermostat panel, serving as a user interface of Meitav-tec communicating controller, applicable for B.M.S (Building Management Systems)

The FMH-X500 is a flush mount, thermostat panel, functioning as a user interface of a communicating controller.

Having advanced communication capabilities, it is an ideal panel for BMS applications.

Temperature may be sensed either through the wall panel's built-in temperature sensor or through the return air sensor connected to the main board.

The FMH-X500 is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display

Features

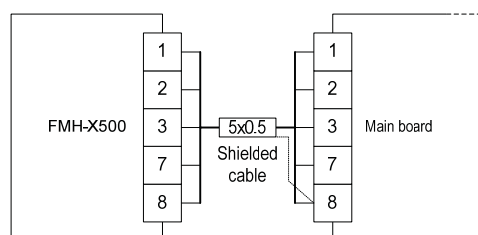
- Flush mount, horizontally shaped panel
- Built-in communication
- On /Off
- Set temperature
- Modes: Cool / Heat / Auto-Change-Over/Fan Only
- Auto-Fan
- 1 or 3 fan speeds



- Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor – DIP switch selectable
- Suitable for Meitav'tec's B.M.S. communicating controllers
- Silicon rubber pushbuttons
- Large, easy to read display
- Various panel colors



Wiring diagram



FMT-X500

Flush mount, thermostat panel, serving as a user interface of a communicating controller, applicable for B.M.S (Building Management Systems)

The FMT-X500 is a flush mount, thermostat panel, functioning as a user interface of a communicating controller.

Having advanced communication capabilities, it is an ideal panel for BMS applications.

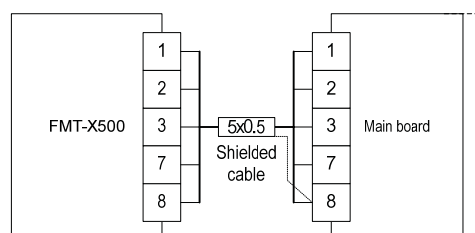
Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor connected to the main board.



Features

- Flush mount, vertically shaped, panel
- Built-in communication
- On /Off
- Set temperature
- Modes: Cool / Heat / Auto-Change-Over/ Fan Only
- Auto-Fan
- 3 fan speeds
- Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor – DIP switch selectable
- Suitable for Meitav'tec's controllers
- Silicon rubber pushbuttons
- Large, easy to read display
- Various panel colors

Wiring diagram



IRP-X500 + RT03

Infra Red Panel operating +IR remote Control to operate Meitav-tec's communicating controller, applicable for B.M.S. (Building Management Systems)

The IRP-X500 is an Infra Red Receiving Panel operating a communicating controller.

Having advanced communication capabilities, it is a perfect solution for B.M.S. applications.

Temperature may be sensed either through IRP's built-in temperature sensor, or through the return air sensor connected to the main board.

Features

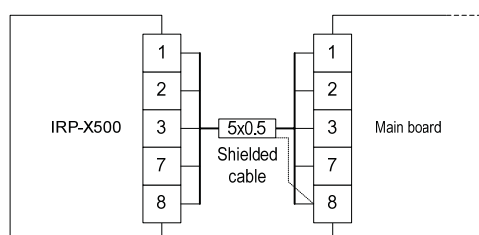
- Wall mount, Infra Red Panel + IR remote control
- Built-in communication with controller
- On /Off
- Set temperature
- Modes: Cool / Heat / Auto-Change-Over/Fan Only
- Auto-Fan
- 1 or 3 fan speeds



- Temperature may be sensed either through the wall panel's built-in temperature sensor, or through the return air sensor – jumper selectable
- Suitable for Meitav'tec's controllers
- Panel dimensions – 46 x 38 x 19 mm



Wiring diagram



CTU2601 - BACnet Protocol

Input / Output card for BACnet communication net

The CTU-2601 is an Input / Output (I/O) card for BACnet communication net, designed to control various devices from software.

It has 8 inputs, dry contact to view the status of any device or other input connected and 8 outputs to control any device, such as:

- Air compressor
- Chiller
- Fresh air damper
- Lights
- Pump
- Fans

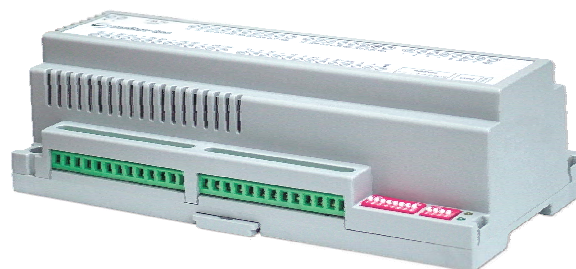
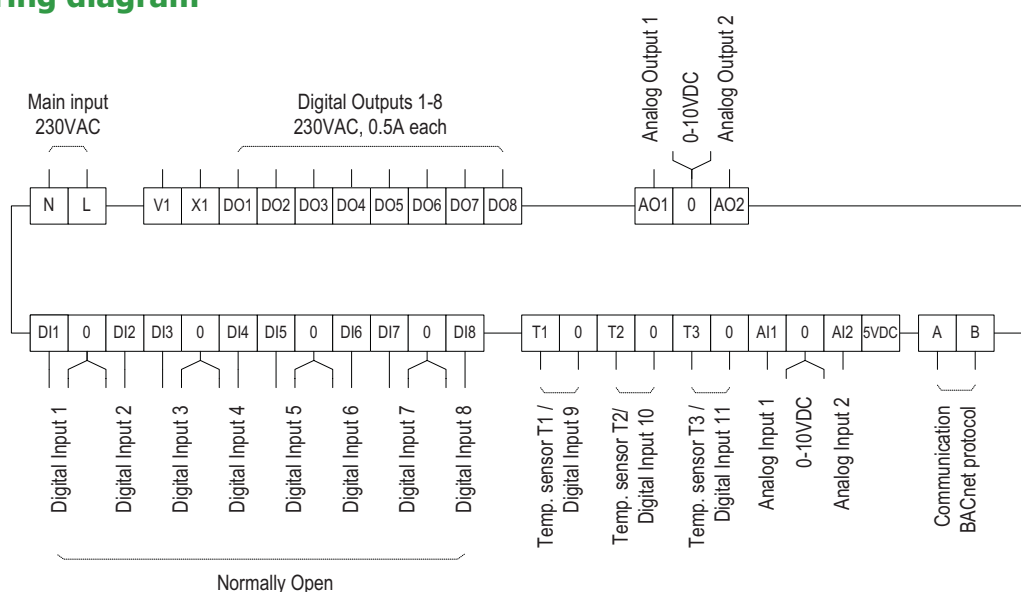
The CTU-2601 also offers 3 Temperature sensor inputs in order to view temperature in different locations, 2 Analog Inputs and 2 Analog Outputs.

Features

- 8 Digital Outputs – Available in either 230VAC, 110VAC or 24VAC
- 2 Analog Outputs, 0-10VDC
- 8 Digital Inputs – voltage free – dry contact
- 2 Analog Inputs, 0-10VDC
- 3 Temperature reading Inputs* (50K Ω @ 25°C)
- Easy connection to Din Rail
- MAC Address selection by DIP Switches

* The 3 Temperature readings inputs may be used as Digital Inputs – Dry contact as well.

Wiring diagram



CTU4601 - Modbus RTU Protocol

Input / Output card for Modbus communication net

The CTU-4601 is an Input / Output (I/O) card for Modbus communication net, designed to control various devices from B.M.S. software.

It has 8 inputs, dry contact to view the status of any device or other input connected and 8 outputs to control any device, such as:

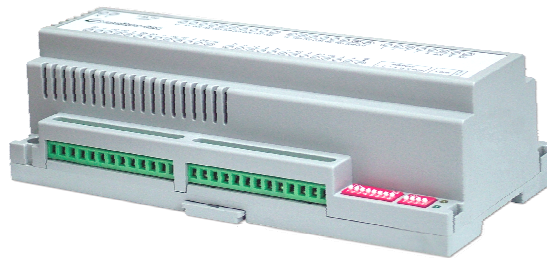
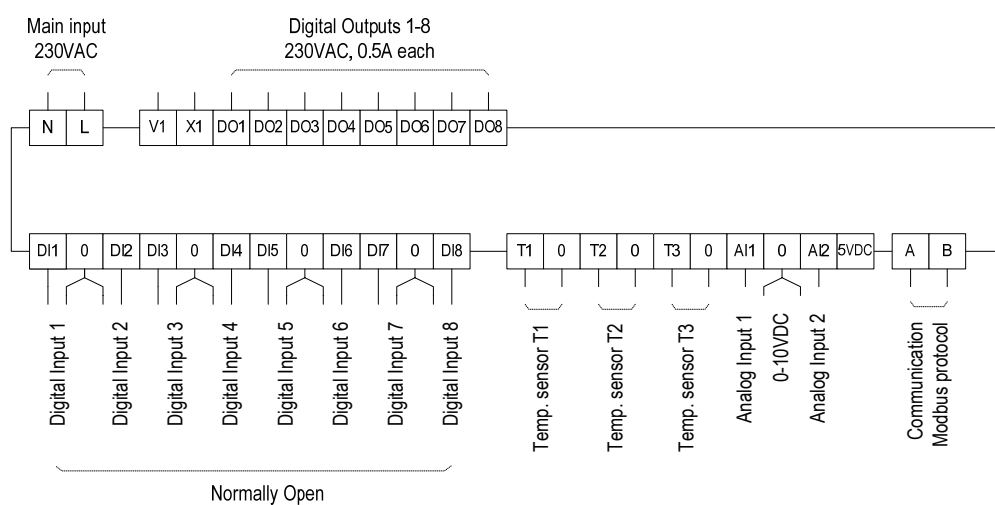
- Air compressor
- Chiller
- Fresh air damper
- Lights
- Pump
- Outdoor Lights

The CTU-4601 also offers 3 Temperature sensor inputs in order to view temperature in different locations and 2 analog inputs.

Features

- 8 Digital Outputs – Available in either 230VAC, 110VAC or 24VAC
- 8 Digital Inputs – voltage free – dry contact
- 2 Analog Inputs, 0-10VDC
- 3 Temperature reading Inputs (50KΩ @ 25°C)
- Easy connection to Din Rail
- MAC Address selection by DIP Switches

Wiring diagram



B.M.S.
COMPATIBLE

COMM

EXT.
SENSOR
OPTION

CE

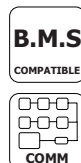
CTU2646 – Input/Output card

Input / Output card for BACnet and Modbus communication net

The CTU2646 is an Input/Output (I/O) card for BACnet or Modbus communication protocols, designed to control various devices from the Building Automation Server/Application.

It has 12 inputs, dry contact to view the status of any device or other input connected and 4 outputs to control any device, such as:

- Air compressor
- Chiller
- Fresh air damper
- Lights
- Pump
- Fans



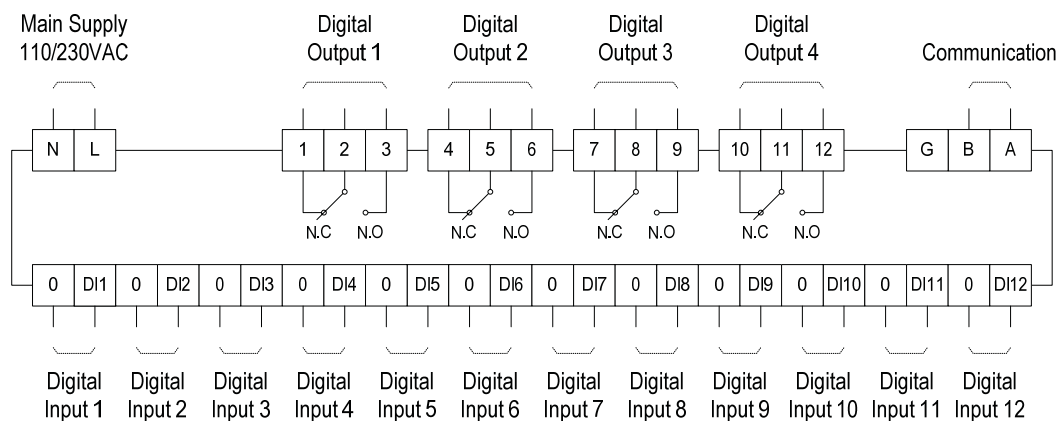
Features

- Main supply: 230VAC or 110VAC
- RS-485 Communication port - BACnet (BTL certified) or Modbus operation selectable by DIP switch
- 12 x Digital Inputs – voltage free – dry contact
- DI12 digital input can be converted to 24V Input - jumper selectable
- 4 X Digital outputs (Change Over)
- Selectable Digital outputs configuration - N.O/N.C

- Easy connection to Din Rail
- MAC Address selection by DIP Switches

Note: 24VAC to Dry contact Adaptor can be supplied upon order.

Wiring diagram



TCP/IP – Web HVAC Network Controller & viewer

The TCP/IP/WEB controller is an ideal solution for real-time monitoring and control of a thermostat network, via the internet, without the need for designated computer.

The TCP/IP/WEB enables access to the HVAC Network Control program via an exclusive IP, and therefore doesn't require a main control computer. Up to 240 Meitav-Tec thermostats/controllers can be connected to each TCP/IP/WEB via RS-485 communication network making the control simple, easy and most importantly accessible from any device with internet access.

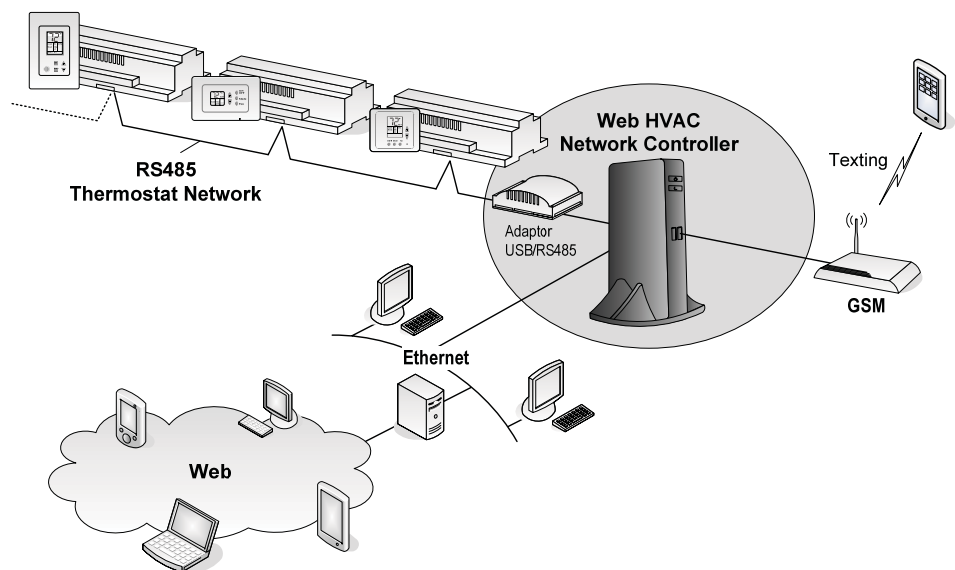
The TCP/IPWEB offers a user friendly interface with options for area/floor scheme display, text alarms to cellular phones, weekly program, data logger and more.


B.M.S
COMPATIBLE


Features

- Main supply: 230VAC or 110VAC
- Real-Time, thermostats network main controller
- Web access to each controller via exclusive IP
- Adjustable Set point limits for cooling and heating
- Weekly programs
- Ethernet/Internet Connection
- Alarm to telephone numbers by Texting - optional
- Data logger (can be exported to Excel)
- Friendly, clear graphic display of all units
- Remote control of all units in the network
- Replaces the need for dedicated computer on site
- System continues to work as a standalone system when disconnected from the web

Schematic Layout



PSMZ-100/200 for Multi-Zone System

**24VAC, Controller for multi-zone system
controlling 4 to 7 zones**

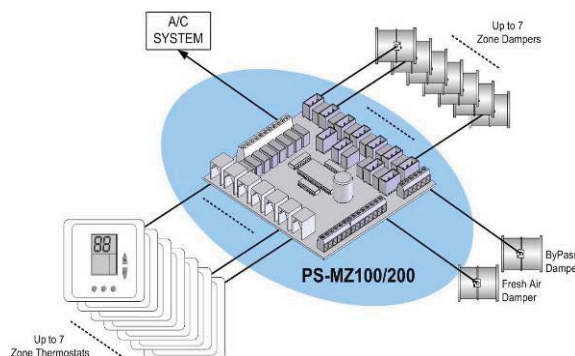
The PS-MZ 100/200 is ideal for residential, commercial or industrial applications. It is compatible with Heat/Cool or Heat Pump HVAC applications and can control up to 4 (PS-MZ100) or 7 (PS-MZ200) different zones.

One of the zones serves also as the master, and different types of thermostats can be selected as masters or zones. Zones can also be programmed for on/off, ideal for times when the zone is less occupied.

The main board offers inputs for Bypass and Fresh Air dampers and 3 different temperature sensors. Other features such as Auto-Changeover mode and quick connectors from the thermostats to the main board, make this multi-zone the simplest and most efficient climate control system.

Features

- Main Input - 24VAC
- Controls up to 4 zones (PS-MZ100) or 7 zones (PS-MZ200)
- Zone 1 also serves as Master (same thermostat)
- Heat/Cool or Heat pump - Selectable
- Up to 4 stages for Heat and 2 stages for Cool
- Selectable Heat output- Electric or Oil/Gas (jumper selectable)
- Modes: Cool, Heat, Auto-change Over, Fan Only – selectable through Master only
- T1 Sensor - Indoor temperature sensor- option (for Fresh Air Damper)
- T2 Sensor - Outdoor temperature sensor- option (for Fresh Air Damper)
- T3 Sensor - Indoor Coil sensor (freeze protection in Cool and overheat protection in Heat)
- Energy saving and cost efficient system
- Output for dampers- 3-wire , 24 VAC
- Fresh Air Dampers- 2 logics for open/close:
 1. by timer (min per hour), or
 2. by temperature difference (T1-T2)
- Bypass Damper (3-wire) output
- Display temperature available in °C or °F – depending on model ordered
- Economy mode (Unoccupied mode) – optional
- Zone thermostats with weekly program – optional, depending on model ordered
- Weekly Program type- (5-1-1) - 4 times Set Cool/Set Heat



PSMZ-100/200 for Multi-Zone System

Master & Zone 1 M100

Different types of thermostats can be selected for masters and zones; wall or flush mount, with C° or F° temperature display, programmable or non-programmable. Programmable controllers are ideal for times when zones are unoccupied, and is therefore energy saving and cost efficient.

When thermostat functions as a Master, it Controls main system functions:

- On/Off
- Mode (Cool, Heat, Auto, Fan Only)
- Activate or de-activate Economy Mode - Unoccupied Mode)
- Set Fresh Air damper logic

Functions of thermostat as Zone 1:

- Local Fan
- Local set point
- Weekly program- option depending on thermostat ordered

Zone Z100

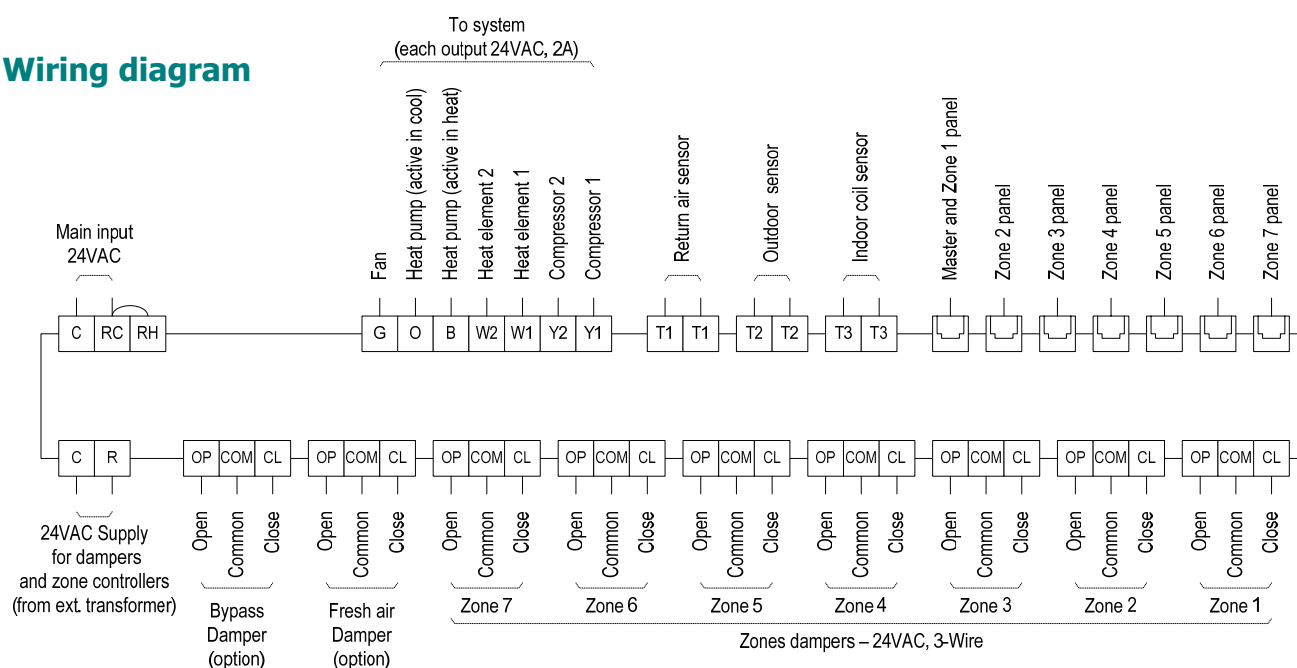
- Set local On/Off status
- Set local set point
- Weekly program- option (depending on thermostat ordered)
- Fan On / Auto Fan

Models

Master & Zone model	Scale	Program.	Zone Model	Scale	Program.
ETN-M100-C	Celsius	-	ETN-Z100-F	Fahrenheit	-
ETN-M100-F	Fahrenheit	-	ETN-Z100-C	Celsius	-
ETN-M100-Prog-C	Celsius	+	ETN-Z100-F-Prog	Fahrenheit	+
ETN-M100-Prog-F	Fahrenheit	+	ETN-Z100-C-Prog	Celsius	+

Note: All Master and Zone thermostats are available in flush-mount models (FMT) as well.

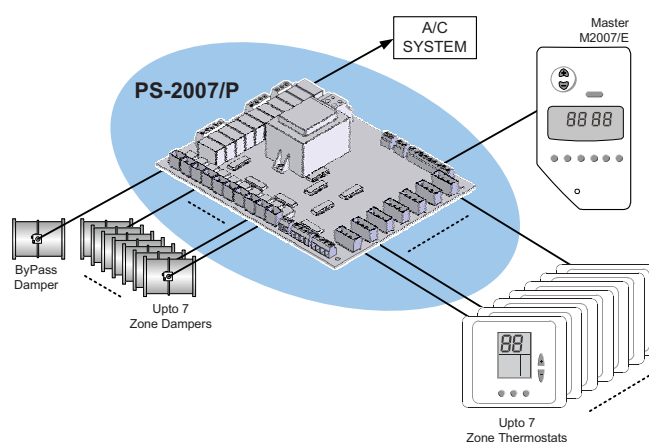
Wiring diagram



PS 2007/P - Multi-Zone Control System

230VAC Controller for multi-zone system with proportional, 3-wire damper outputs, to control up to 7 zones

The PS 2007/P is a simple yet extremely intelligent controller for Multi-Zone system, ideal for small to medium scale apartments and houses.



Controlling up to 7 zones, it is compatible with Heat/Cool or Heat Pump HVAC systems. The PS 2007/P offers proportional damper outputs (both for the zones and the bypass and 3 different temperature sensor inputs. With a separate master to control the system parameters (ON/OFF, Mode, Fan), the PS 2007/P is an environmental friendly and energy saving system.

Features

- Main Input - 230VAC
- Controls up to 7 zones
- 3 wire, proportional damper output
- Selectable system configuration- Heat/Cool or Heat Pump
- Selectable Heat output- Electric or Oil/Gas (jumper selectable)
- Up to 3 stages of Heat and 2 stages of Cool
- Modes: Cool, Heat, Fan Only- selectable through Master only
- T2 - Outdoor coil temperature sensor (de-frost protection in Heat)
- T3 - Indoor coil temperature sensor (freeze protection in Cool)
- Energy saving, environmental friendly system
- Wall or flush mount thermostat for zone controller (ETN-41-P or FMH-41-P)
- Master unit with weekly program- start time/stop time
- Zone damper outputs- Proportional Integral logic (for Meitav-tec dampers only)
- Bypass damper output - proportional
- Open / Close time 13-15 seconds, I=20mA



PS 2007 - Multi-Zone Control System

M2007 Master Controller

**Wall mount, Master Controller for Multi-zone systems
(up to 7 zones)**

The M2007-E Master Controller is the main controller for the main system functions.



Features

- On/Off
- Fan speed (Hi-Med-Low)
- Modes: Cool, Heat, Fan Only
- Fan On – Auto Fan
- Set weekly program for all system - optional
- Energy saving and cost efficient

Zone Z-2007

**Zone Controller for Multi-zone systems -
Wall or flush mount with optional hand held remote control**

Two types of controllers can be selected for zones;

- Wall-mount - ETN-41-P-IR, with hand held remote control (RT-41)
- Flush-mount - FMH-41-P-IR, with hand held remote control (RT-41)



Features

- Set local On/Off status
- Set local temperature set point

PS-MZ502 Multi-Zone System

24VAC, Multi-Zone and climate control system, to control up to 31 zones

The PS-MZ502 is an advanced multi-zone system controlling up to 31 Zones. It is the perfect climate control system for small to medium residential, commercial or industrial applications, enabling users to decide which rooms in their house or office will be air conditioned or closed.

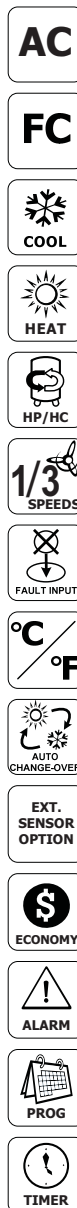
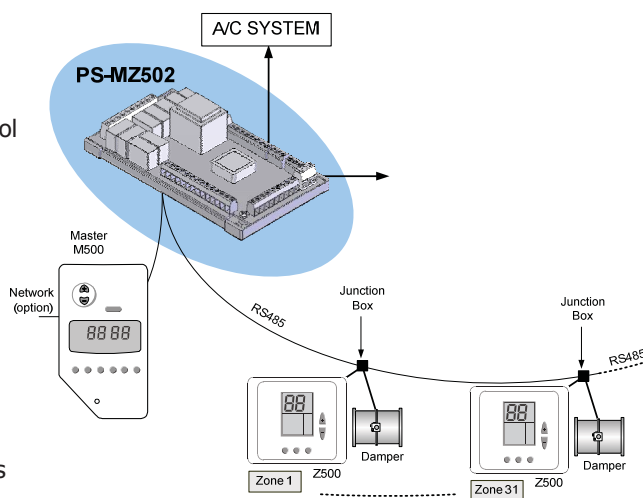
Suitable for Heat/Cool or Heat Pump applications, the PS-MZ502 allows multiple stages of Cool and Heat. The Master Unit M500 allows users to view and change zone parameters, such as local On/Off and set point. It is also used to set the main system parameters.

Through the main board, features such as proportional Fresh Air and Bypass damper outputs are available. A special pressure sensor input exists, in order to control the bypass damper. There are also 2 different fault inputs and 3 temperature sensor inputs.

Overall, the PS-MZ502 multi-zone system improves occupant comfort with maximum energy saving.

Features

- Main Input - 24VAC
- Controls up to 31 zones
- Energy saving, environmental friendly system
- Communication to Maxinet Thermostat network
- Selectable system configuration- Heat/Cool or Heat Pump, 2 Pipe or 4 Pipe Fan Coil
- Up to 4 stages of Heat and 2 stages of Cool
- Selectable Heat output- Electric or Oil/Gas (jumper selectable)
- Modes: Cool, Heat, Auto-change Over, Fan Only- selectable through Master ONLY
- Output for dampers- 3-wire, 24VAC, general purpose with P.I logic
 - * Zone dampers- open / close time adjustable
 - * Fresh Air Dampers- 2 logics for open/close:
 - by timer (min. per hour) OR
 - by temperature difference (T1-T2)
 - * Bypass Damper (0-10V) output- 2 options:
 - by pressure (input for air pressure sensor) OR
 - by number of rooms
- T1- Indoor temperature sensor
- T2- Outdoor temperature sensor
- T3- Duct temperature sensor (freeze protection in Cool, overheat protection in Heat)
- Display temperature available in C° or F°
- 12-h Timer / 24-h Timer – DIP switch selectable
- Access zones from master (set point, on/off)
- Master unit with weekly program- jumper selectable
- Weekly Program- 7 days, 4 programs per day (start time/stop time)
- 1 or 2 fan speeds
- Input for air pressure sensor- for bypass output
- Compressor delay- option
- Economy (Set Back) Mode available for individual zones or all the system
- F1- Fault input, normally closed, voltage free- all system OFF
- F2 - Fault input, normally closed, voltage free- alarm indication on master



PS-MZ502 Multi-Zone System

Master M500 Controller

The Master M500 of PS-MZ502 Multi Zone system controls main system and zone functions :

Main system functions

- On/Off
- Modes: Cool, Heat, Auto-change-over, Fan Only
- Fan: Fan On – Auto Fan
- Activate or de-activate Economy Mode (Unoccupied Mode)
- View main system parameters- damper status, faults, pressure, T2, T3
- Set Fresh Air damper and Bypass damper logic
- Set weekly program for all system- option (7 days, 4 programs per day)
- Maxinet Networking connection - option

Zone Functions

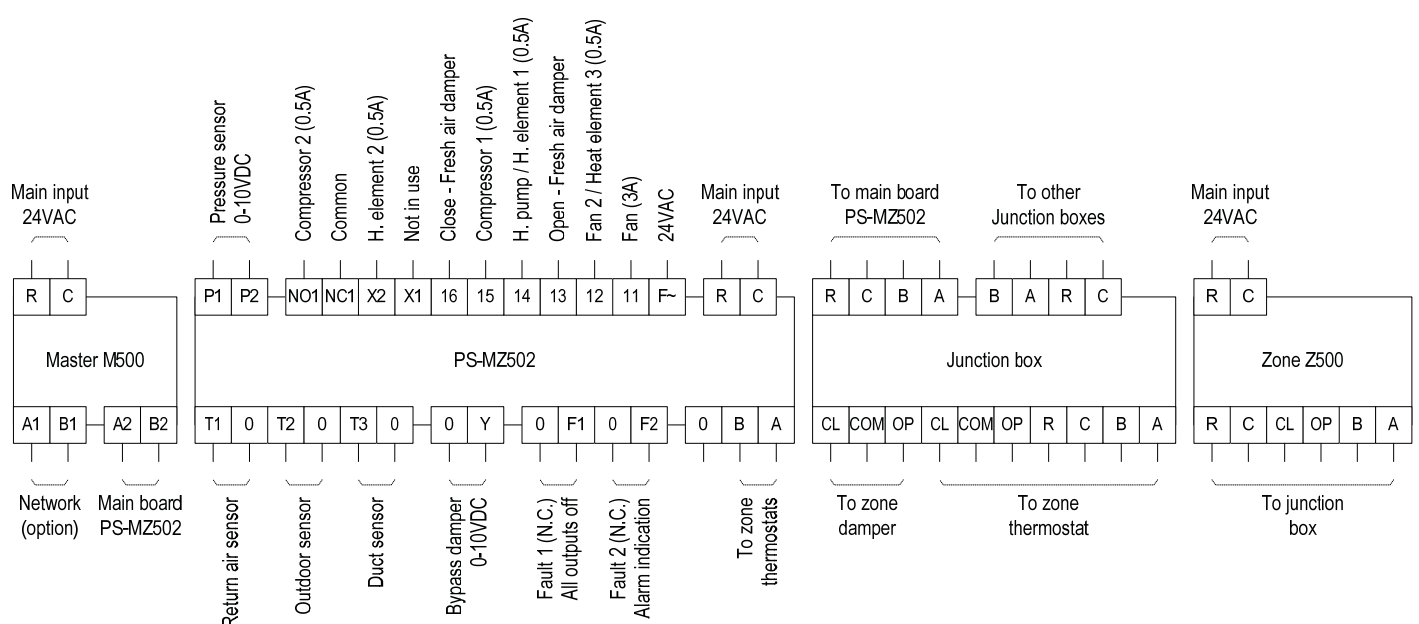
- local ON/OFF
- Set point
- Local temperature limits - password protected
- View zone parameters- mode, set point, % open of dampers

Zone Z500 Controller

The Zone Z500 controls the following functions:

- Set local On/Off status
- Set local set point
- Set local temperature limits (password protected)
- Adjust damper's open/close time

Wiring Diagram



ETN-24-AZC

24VAC damper controller, proportional, with an option for a duct temperature sensor

The ETN-24-AZC is the best stand-alone damper controller with a proportional output. This thermostat can control all standard, general purpose dampers- (3-wire, 24VAC) and its Open / Close time is adjustable by the user.

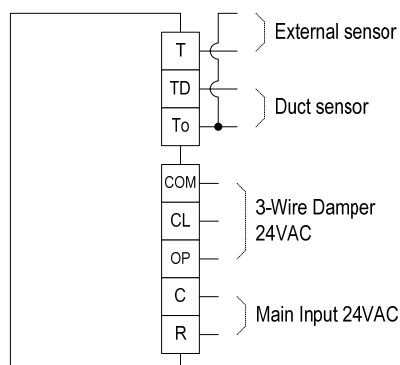
The ETN-24-AZC also has a special option to connect a duct temperature sensor, which senses the airflow temperature and automatically selects the mode (Auto-Change-Over).

Features

- 24VAC damper controller
- Proportional, 3-wire output for dampers
- Two different temperature scales: Fahrenheit or Celsius
- External Sensor – Option
- Offset for temperature reading adjustment
- Energy saving – cost efficient, environmental friendly thermostat
- Set point limits for cooling and heating
- Adjustable open/close time for motor (10 - 400 seconds)
- Duct sensor for Auto Change-Over mode – option
- Remote Control – RT41



Wiring diagram



FMT-24-AZC-Proportional-IR

Flush mount, 24VAC thermostat for Damper control, with a proportional 3-wire output

The FMT-24-AZC is an ideal stand-alone damper controller with a proportional floating output. This thermostat can control all standard, general purpose dampers- (3-wire, 24VAC), and its Open / Close time is adjustable by the user.

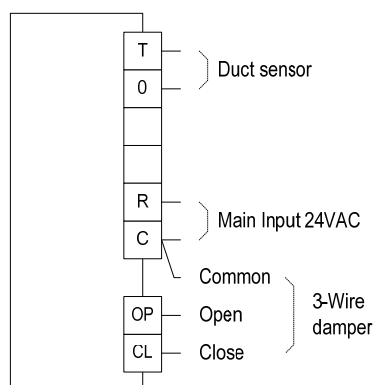
The FMT-24-AZC has also a special option to connect a duct temperature sensor, which senses the airflow temperature and automatically selects the mode (Auto-Change-Over).



Features

- Flush mount, 24VAC thermostat
- Proportional output for dampers – 24VAC, 3-wire
- Two temperature scales: Fahrenheit or Celsius
- Offset for temperature reading adjustment
- Duct sensor for Auto Change-Over mode – optional
- Energy saving – cost efficient, Environmental Friendly implemented logic
- Set point limits for cooling and heating
- Adjustable open/close time for motor (10-400 seconds)
- IR Remote Control

Wiring diagram



ETN-40P1

Wall mount, room thermostat, with IR-option for damper control, On/Off to Damper

The ETN-40P1 is a wall mount, thermostat panel, functioning as a user interface for damper control.

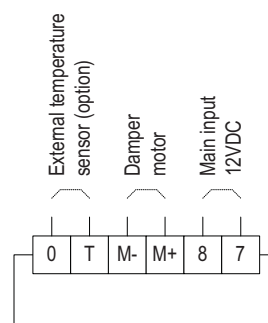
The ETN-40P1 is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display



Features

- Wall mount, 12V thermostat
- Control of:
 - * On /Off - 12V signal to damper
 - * Set temperature
- Remote control (RT40) – optional
- External Temp. sensor – optional
- Silicon rubber pushbuttons
- Large, easy to read display
- Various panel colors
- Works with DA-401 dampers family

Wiring diagram



FMH-40P1

**Flush mount, room thermostat, with IR-
option for damper control, On/Off to Damper**

The FMH-40P1 is a flush mount, thermostat panel, functioning as a user interface for damper control.

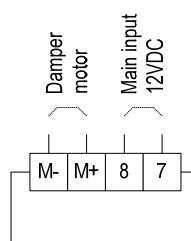
The FMH-40P1 is a smart looking thermostat with a soft aesthetic shape and a large, easy to read LCD display



Features

- Wall mount, horizontally shaped, 12V thermostat
- Control of:
 - * On /Off – open/close the damper
 - * Set temperature
- Timer
- Remote control (RT40) - optional
- Silicon rubber pushbuttons
- Large, easy to read display
- Various panel colors
- Works with DA-401 dampers family

Wiring diagram



IRP-401

**Infra red receiver panel + IR remote Control
for damper control, On/Off to Damper**

The IRP-401 is an Infra Red Receiving Panel for damper control. 12V operation and power to Damper.



Features

- Control of:
 - * On /Off
 - * Set temperature
- Suitable for Meitav-tec's dampers - DA-401 dampers family
- Dimensions – 46 x 38 x 19 mm

DA-401 - Stand Alone Dampers

Stand-alone dampers for air flow capacity regulation and control. Available in 6",8" & 10" diameter

The Stand Alone proportional dampers are the best way to obtain optimum results from today's air conditioning ducting systems. They allow you to have complete control over which rooms at home are air-conditioned or closed, and are thus energy saving.

Dampers can be operated by two different control devices: room thermostats, or by IR receiver with hand held remote control. Users decide on mode and set point and the damper will open or close accordingly.

DA-401 dampers are available in 6", 8" & 10" diameter.



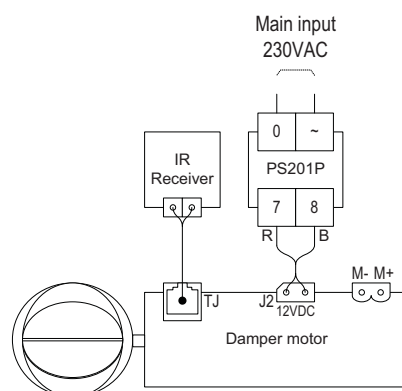
Features

- Main supply - 12VAC
- Stand alone proportional damper
- Energy saving & environmentally friendly
- Two different control options:
 - * Room thermostat
 - * Infra Red Receiver + Hand held remote control

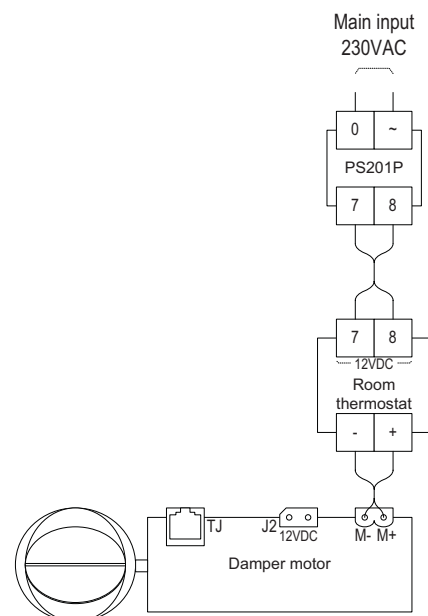
Models

Model	Diameter
DA6"-401	6"
DA8"-401	8"
DA10"-401	10"

Wiring diagram



Application 1 – IR Receiver + Remote control



Application 2 – Room thermostat

DA-24-3W

Stand alone damper –

Air flow regulator & control

Available in 6", 8", 10" diameter

Damper for climate control are the best way to regulate airflow in a multi-zoned house, hotel or office building to improve efficiency and occupant comfort.

Dampers allow you to have complete control over which rooms are air conditioned or closed, and are thus energy saving.

Users decide on mode and set point and the damper will open or close accordingly.

Dampers are available in 6", 8" & 10" diameter.

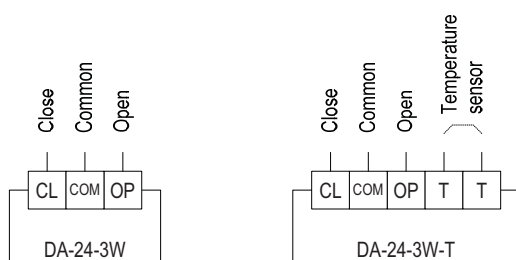


Features

- Main supply - 24V
- Stand alone, proportional damper
- Proportional, 3 wire open /close
- Damper opening/ closing duration: 8 seconds
- Damper control - via room thermostat
- Energy saving & environmental friendly
- Available in 6", 8" and 10" diameter

Note: These dampers are available also with a Temperature Sensor (DA-24-3W-T series)

Wiring diagram



FE-340-H1

Wall mount, 230VAC thermostat for Floor Heating

The FE-340-H1 thermostat for floor heating elements perfectly suits commercial and residential applications.

The FE-340-H1 thermostat has been specifically designed for Floor Heating systems and has an output for Heat only (16Amp).

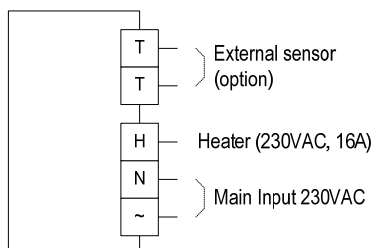
The FE-340-H1 is attractively designed, easy to use and is energy saving solution for Floor Heating applications.



Features

- Main Supply - 230VAC
- Range - 10-30°C
- Output for Heat Element only- 230VAC, 16Amp
- External Sensor- option (TS05 or TS06)
- Offset – for temperature reading adjustment
- Fits into Standard Gewiss Box (GW24 203)
- Energy saving – cost efficient, environmental friendly thermostat
- Large, easy to read display
- Soft, silicon pushbuttons
- Neutral, aesthetic color

Wiring diagram



FE-340-H1-PAR

Wall mount, 230VAC thermostat, for Floor Heating applications, with Overheat protection (27°C)

The FE-340-H1-PAR thermostat for floor heating is perfectly suitable for higher-end commercial or residential applications.

The FE-340-H1-PAR-45 thermostat, with an output for Heat only (16Amp), has been specifically designed for Floor Heating, parquet systems, where temperature mustn't exceed 27°C (Adjustable).

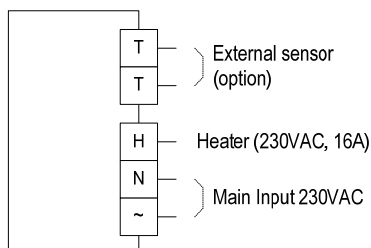
The FE-340-H1-PAR, with its over heat protection is a simple, yet convenient solution for floor heating systems.



Features

- Main Supply - 230VAC
- Output for Heat Element only- 230VAC, 16Amp
- Special Floor Temperature Sensor input (T-TO) for overheat protection
- Overheat Protection- Heat output turns off if temp. reaches 27°C
- Energy saving – cost efficient, environmental friendly thermostat
- Offset – for temperature reading adjustment
- IR remote control – option
- Timer operation (By Remote control)
- Fits into Standard Gewiss Box (GW24 203)

Wiring diagram



FE-340-H1-PAR-45

Wall mount, 230VAC thermostat, for Floor Heating applications, with Overheat protection

The FE-340-H1-PAR-45 thermostat for Floor Heating is perfectly suitable for higher-end commercial or residential applications.

The FE-340-H1-PAR-45 thermostat has an output for Heat only (16Amp) and has been specifically designed for Floor Heating, parquet systems, where temperature cannot be allowed to exceed 45°C.

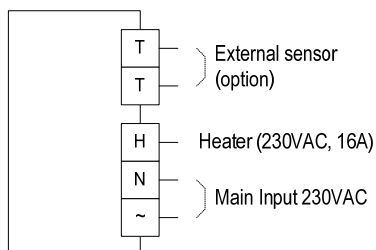
The FE-340-H1-PAR-45, with its over heat protection is a simple, yet convenient and safe solution for floor heating systems.



Features

- Main Supply - 230VAC
- Output for Heat Element only- 230VAC, 16Amp
- Special Floor Temperature Sensor input (T-TO) for overheat protection
- Overheat Protection- HEAT output turns OFF if temp reaches 45°C
- Energy saving – cost efficient, environmental friendly thermostat
- Offset – for temperature reading adjustment
- IR remote control – option
- Timer operation (By Remote control)
- Fits into Standard Gewiss Box (GW24 203)

Wiring diagram



FHV-H1-PR-IR

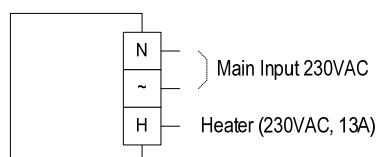
Wall mount, 230VAC thermostat, for Floor Heating applications, with weekly programming

The FHV-H1-PR-IR thermostat for floor heating is perfectly suitable for commercial or residential applications and has been specifically designed for Floor Heating systems. With weekly programming and external sensor option, the FHV-H1-PR-IR is a simple, yet efficient solution for floor heating systems.

Features

- Main Supply - 230VAC
- Flush-mount thermostat
- Output for Heat element- 230VAC, 13Amp
- DIP switch selectable display – Tambient and Tset or Tset only
- Energy saving – cost efficient, Environmental Friendly algorithms
- IR remote control – option
- Weekly program (5-1-1)
- Offset – for temperature reading adjustment

Wiring diagram



PS8-FH + ETN-8H

Multi Zone Controller (PS8-FH) + Wall-mount Thermostat (ETN-8H) for Floor Heating applications

The PS8-FH + ETN-8H multi-zone controller for Floor Heating elements perfectly suits commercial or residential applications.

This multi-zone system consists of one main board to control up to 8 zones and a thermostat. Each zone works with two temperature sensors; ambient temperature sensor and floor temperature sensor for floor overheat protection. The user controls the zones via a wall panel, where each zone may be individually accessed.

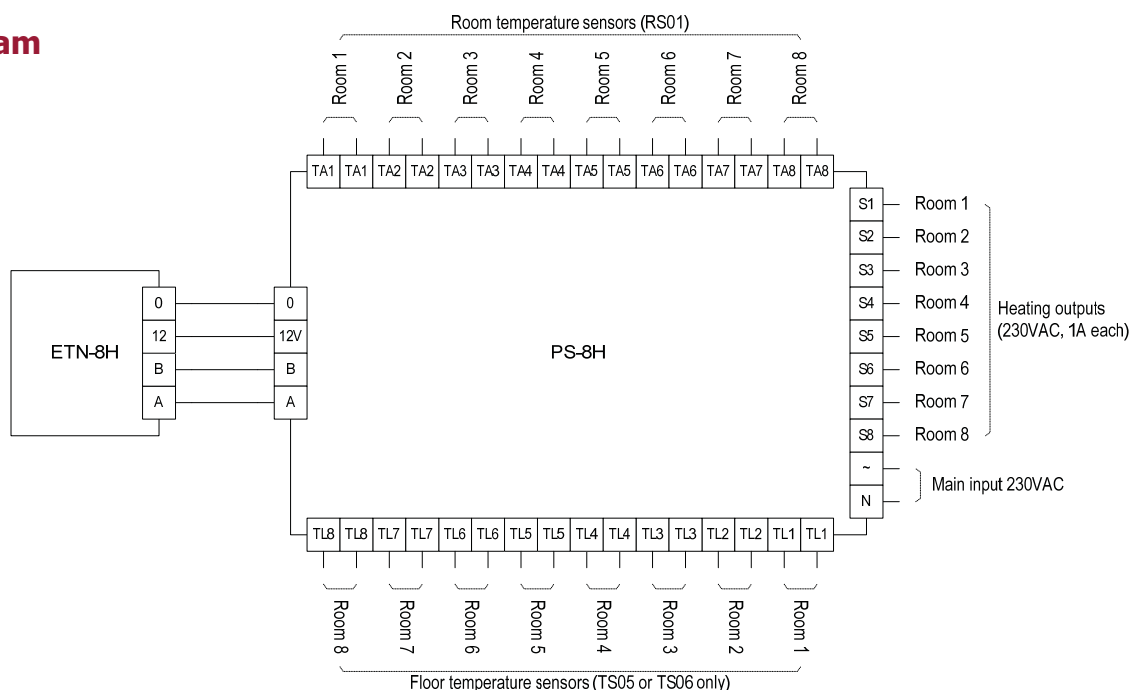
The PS8-FH + ETN-8H with overheat protection feature is ideal for parquet floors due to its overheat protection logic.



Features

- Main Supply - 230VAC
- Output for up to 8 Heat elements- 230VAC, 1Amp
- ETN-8H- wall-mount thermostat control panel (12VDC) for up to 8 zones (output from main board)
- Output for up to 8 external temperature sensors (RS01) for ambient temperature (10°-30°C)
- Output for up to 8 temperature sensors (TS01) for floor temperature limit
- Overheat protection- unit turns off, if floor temperature limit is reached
- Floor temperature limit - DIP switch selectable (27°C, 28°C, 29°C or 30°C)
- Energy saving, environmental friendly system

Wiring diagram



GAQ - Air Quality Controller & Sensor Series

**Air Quality controller – wall mount, 24VAC, or 12VDC
and**

Duct / Room sensor 24VAC or 12VDC

The GAQ series are Air Quality Sensors and Controllers that automatically react to air pollution sources. They sense tobacco smoke, toilet odors, strong kitchen smells, etc. and mechanically regulate ventilated areas such as cinemas, pubs, restaurants, toilets or conference rooms.

The sensor switches the fan on when air quality drops below a preset, adjustable level. The sensing head of the unit is self - cleaning, a process which occurs each time the unit is triggered. When atmosphere has returned to normal, the fan switches off.



GAQ -12/24

0-10V
OUTPUT

GAQ Room Sensor



GAQ Duct Sensor



Features

Wall mount, Air Quality Controllers

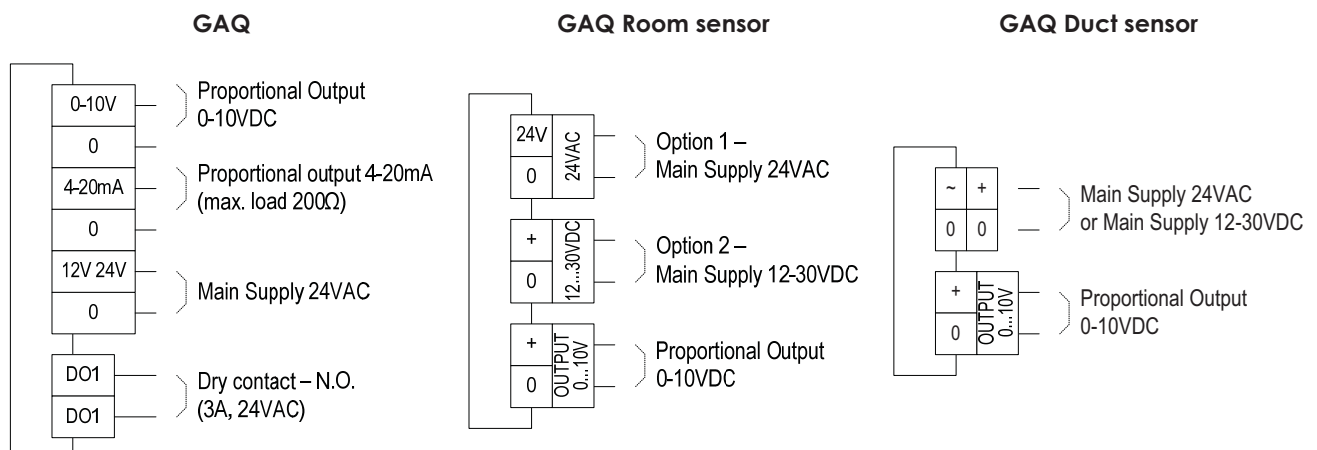
- Main supply - 24VAC or 12VDC (with PS)
- The controller has 3 outputs:
 - * Proportional output 0-10VDC for variable fan speed or B.M.S. applications.
 - * Proportional Output 4-20 mA
 - * Dry contact for direct fan switching (on/off) or alarm indication

- Set point for Air Quality - adjustable
- Indication lights to show status of Air Quality controller (On/Off)
- Self cleaning sensor

Room or Duct air quality sensors

- Main supply - 24VAC or 10-30VDC
- Sensor has proportional pre-defined output 0-10VDC

Wiring diagram



CO Detector

Sensor for measuring carbon monoxide (CO) concentration

SensiCO PX 300 is a reliable sensor for measuring carbon monoxide (CO) concentration in locations, such as car parks and garages.

As CO, a dangerous poisonous gas, has no smell, taste or color, it is important to install SensiCO PX300, as a total protection from CO poisoning.

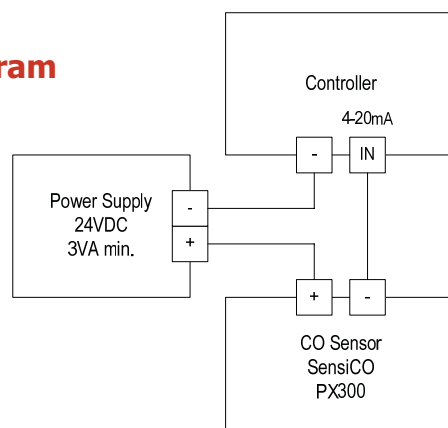
When CO concentration exceeds 50 PPM, a signal to the ventilation system is activated and an alarm is sent to the car park management/ control. SensiCO PX 300 may be connected to a self-control system or to the B.M.S. (Building Management System), using its analog output.



Features

- Approval / Certification: TÜV per VDI – 2053 (Air treatment systems for car parking)
- Detection principle: Electro-chemical
- Operation: Continuous
- Gas entry: by diffusion
- Measuring range: 0-300 ppm CO in air
- Reproducibility : < 3 ppm
- Response time 90: < 60 sec
- Cross sensitivity: < 2% on 300 ppm CO according VDI 2053
- Linearity: < 2% on 300 ppm CO according VDI 2053
- Operating temperature range: -10°C to +40°C
- Humidity range: 15 - 95% relative humidity, non condensating
- Signal: 4-20 mA, max. load 300Ω
- Connection: 2 – wire
- Zero adjustment: Automatic, calibration free
- Sensitivity adjustment: via potentiometer
- R.F.I According EN 50 081-1 resp. EN 50 082-2 B
- Filter: For dust and water protection

Wiring diagram



M4000MD

HVAC Analyzer, measures inlet and outlet variables, for an intelligent analysis of HVAC performance

The **M4000MD** HVAC Analyzer is a diagnostic instrument for a wide range of applications.

It consists of two units; a large LCD display and a hand held sensor connected by a coiled command cable.

The **M4000MD** measures all HVAC inlet and outlet variables, allowing for an intelligent analysis of system performance.

The **M4000MD** is an excellent tool for every HVAC technician allows readings both in Metric or English values.



Features

- The M4000MD measures:
 - * Temperature (°C/°F)
 - * Humidity (%RH)
 - * Dew Point (°C/°F)
 - * Air Velocity (FPS or M/S)
 - * Air Volume (CFM or M³/S)
 - * Energy Capacity in BTU/HR or KW
- Direct Read-out – no additional calculations needed
- Allows measurement of Rectangular and Round Grills
- Three, simple keypads operate all functions
- Low Battery Indication
- Audible and Visual Prompts
- Memory holds cumulative volume and power measurements for multi grills calculations
- 9V Battery Operated

EC-300

230VAC, Energy Controller for energy saving in offices or hotel rooms. Turns off/on HVAC + lighting systems per presence in a room via an Occupancy Sensor and optional Contact Inputs

The EC-300 is a smart Energy Controller, which offers substantial energy saving of Air Conditioning & Lighting operation in hotel bedrooms, offices or conference rooms.

Since hotel bedrooms have different needs from offices regarding occupancy changes, the EC-300 allows different configurations for them. In both applications, presence detection is achieved via an Infra Red Occupancy sensor; if the IR sensor detects no presence within a certain, configurable time, the EC will cut off electricity to HVAC &

Lighting systems. Upon detection, EC will automatically re-operate the systems. Further energy saving is achieved by cutting off electricity to HVAC system if someone opens the window, or if set temperature exceeds the Limit Cool or Limit Heat. For Hotels, additional Contact Input, a door switch, or other Normally Closed input is employed to stop HVAC, Lighting or both.

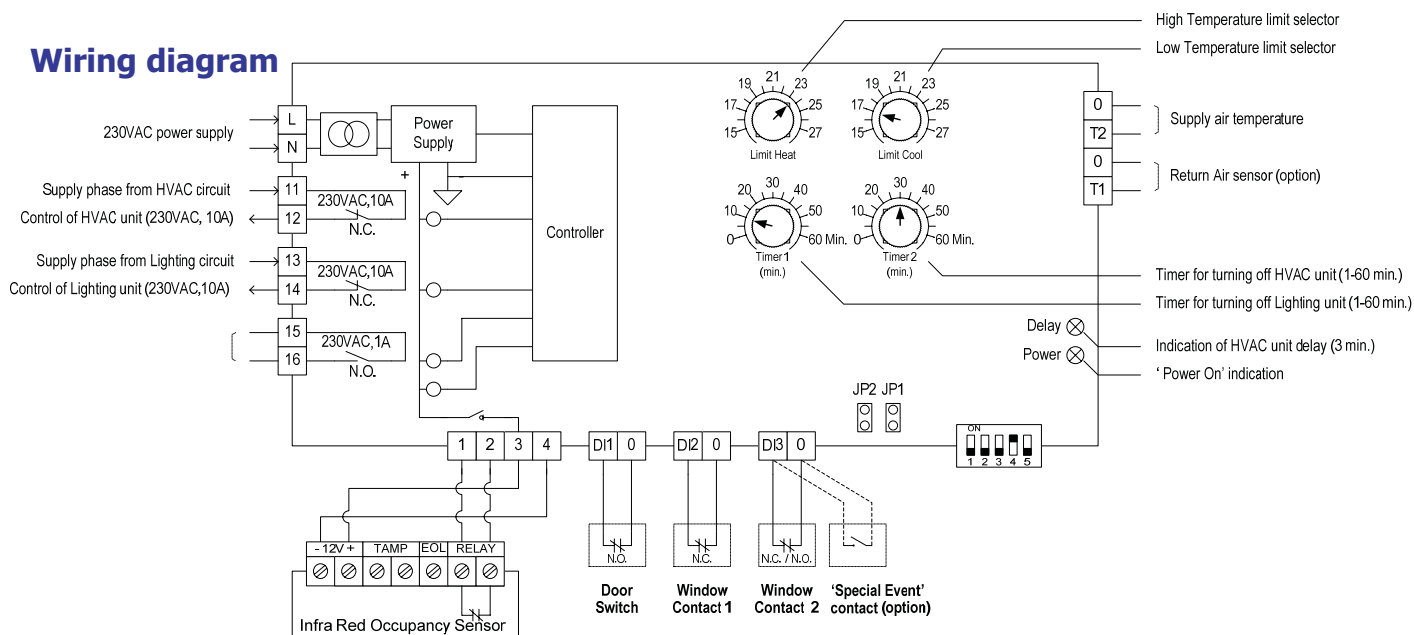


Available also in 24VAC version

Features

- Power supply - 230VAC, 10A for HVAC operation
- Detects presence based on an IR Occupancy sensor + Contact Inputs on door entry or window
- Easy, quick installation at voltage line, between an existing HVAC & lighting system and Power Supply
- Inputs:
 - IR Occupancy sensor – turns off HVAC and lights after adjustable time, separate for HVAC and lights
 - Window contact (X2) – N.O. or N.C. selectable
 - Door switch – enables special logic for hotel rooms
 - Temperature sensors – enable Temperature Limits, Cool & Heat set limits are adjustable
- EC installation requires no modification in the existing room devices
- No decline in convenience to user
- Controller supplies 12VDC voltage to IR sensor
- EC set contains Controller + IR sensor
- DIP switch selectable options:
 - Hotel or Office configuration (Door switch active or not for logic)
 - With or without compressor delay
 - Window contact configuration (N/O or N/C)
- Maximum energy saving

Wiring diagram



TLC

230VAC, Temperature Limit Controller for energy saving. Turns off/on compressor as per adjustable temperature limits.

The TLC is a simple, yet efficient Temperature Limit Controller which offers substantial energy saving of Air Conditioning by limiting 'Set Temperature'.

The TLC is compact and easy to install at any existing AC system by connecting the compressor relay line to the TLC, the TLC overrides the AC control system and therefore can limit the Cool/Heat set points.

Limit Cool & Limit Heat values are configurable. If ambient temperature from the return air sensor exceeds the predefined limits, the compressor will stop working. The TLC will automatically re-operate the compressor according to these values.

The TLC allows significant energy saving in both commercial or residential applications while investment is minimal and installation is quick and simple.

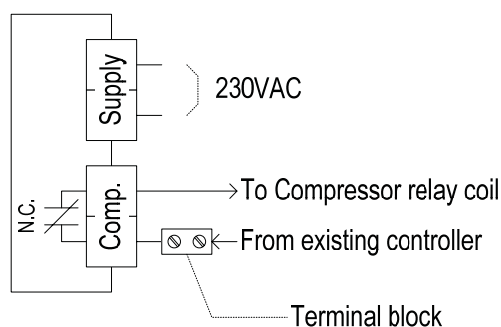


Available also in 24VAC version

Features

- Energy Saving, cost effective Controller
- Adjustable temperature limits for Cool / Heat using 2 manual knobs
- Power supply - 230VAC for HVAC operation
- Easy, quick installation for any existing AC
- 1A, 230Vac dry contact for compressor relay
- With or without compressor delay (to protect compressor) – jumper selectable
- TLC installation requires no modification in the existing room devices
- No decline in convenience to user
- Return On Investment (ROI) is fast

Wiring diagram



Lead-Lag Controller

Lead-Lag Controller for 2 complete units, with On/Off cycling every 24 hrs.

The Lead-Lag controller is the most efficient way of controlling temperature in a remote location where both a primary cooling unit and a back-up cooling unit are used.

The Lead-Lag controller controls 2 different units, treating them as 2 different stages, and allows them to cycle On and Off every 24hrs. This ensures that the desired room temperature is always maintained and also prevents wear of the units.

With a 4°C differential kept always between room temperature and set temperature, the Lead-Lag controller is ideal for environments, such as computer rooms and other rarely visited rooms.



AC

COOL

ALARM

EXT. SENSOR OPTION

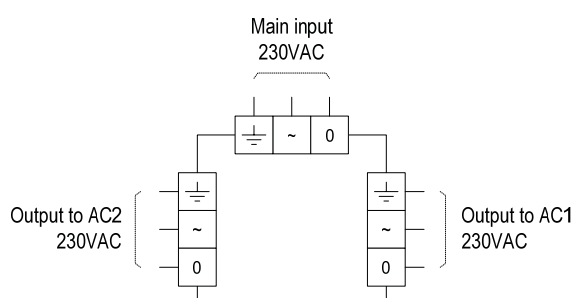
TIMER

COMPRESSOR DELAY

Features

- Main Supply - 230VAC
- Auto switch-over from one unit to the other every 24 hrs.
- In Auto mode, the 2 units (on-duty and off-duty) are treated like 2 stages
- On-duty unit compressor cycles between "On" and "Off" depending on room temp. and set temp.
- Time delay for compressor protection
- 4°C always maintained between room temp and set temp- off-duty unit will start operating, if necessary.
- Manual switch-over (3 positions) between "Auto", "Off" and "Manual"
- Display of ambient temperature on a wall-mount room thermostat (ETN).
- Fault indication when ambient temperature rises above 28°C.
- External sensor for ambient room temperature.

Wiring diagram



M6000-T1-T2-AN

230VAC, Multi Stage Controller, with 6 programmed outputs + analog inputs, for large applications

The M6000-T1-T2-AN controller is the best multi-stage display controller on the market today. As opposed to many complicated units, the M6000-T1-T2-AN makes it incredibly easy to pre-set stages and all other parameters. This, plus the 6 individually programmed outputs, gives users a unique ability to "custom-build" their entire HVAC control system.

The M6000-T1-T2-AN offers the following:

- * 6 outputs- fully programmable
- * 2 outputs for On Indication (may activate fan)
- * Input for 2 temperature sensors to be used separately for each output (Meitav-tec's sensors)
- * Analog Inputs (0-10VDC) to be used separately for each output (humidity, pressure, water flow, etc)

The M6000-T1-T2-AN is suitable for even the largest of applications, such as chillers and big air-handling units.

Features

Main Supply - 230VAC with power supply

Range temperature from 0°C-65°C

Range set point for each output 0°C-60°C

- 6 programmable outputs, each output corresponds to a stage. Parameters that can be set are:
 - * Set point
 - * Input to operate by: Analog, T1 or T2 (2 different temperature sensors) – inputs may be combined
 - * Differential (ΔT between stages)

- * Logic for output- Cool or Heat
Ex: Humidifier- If Heat is selected, output will be activated only if set point is Higher than actual humidity
- * Compressor delay – Yes or No

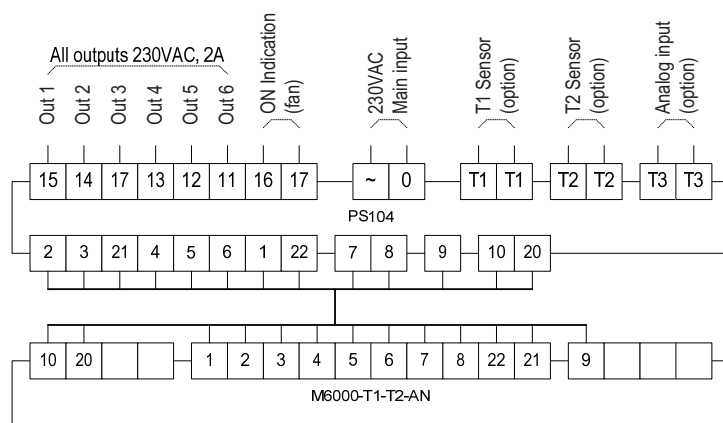
- Analog input can be set for different scales (0 to 100 as % or 0 to adjustable)
 - Fault input – Normally Open (all unit OFF)
- Energy saving – cost efficient, environmental friendly controller
- All outputs have Random start



M6000 (12V) + PS104



Wiring diagram



FCC_01 - Free Cooling Controller

Wall mount, 230VAC controller, for Cooling with outside fresh air – saves energy and refreshes room air.

Meitav-tec's 'Free Cooling' controller offers a simple, energy saving solution to control room temperature. 'Free Cooling' is virtually a Cool Only thermostat, which serves as a complementary to an existing HVAC control system. The thermostat is designed to take advantage of natural resources to cool room temperature; if outside temperature is cooler than ambient then the Free Cooling thermostat sends a signal to open a window or a damper to let fresh, cool air come in, and cool the room.



AC

FC


COOL

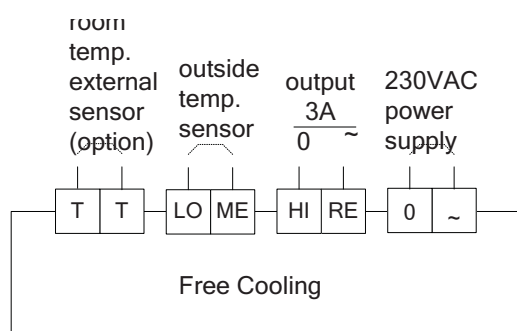

DAMPER
CONTROL

EXT.
SENSOR
OPTION

Features

- Wall mount – 230VAC thermostat
- Open / Auto / Close switch (for damper, fan or window)
- External / Internal room sensor – jumper selectable
- Outside temperature sensor input
- Can work as a "stand-alone" or next to another HVAC system
- Difference between ambient and room temperature, to open the window, is jumper configured (Default is 1°C)
- Energy saving controller
- Aesthetic shaped controller

Wiring diagram



DT-02 Duct Sensor

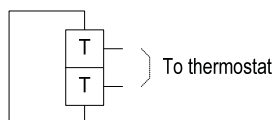
Duct sensor in a plastic enclosure
Suitable for all Meitav-tec's thermostats



Features

- Dimensions:
 - * width - 45 mm
 - * height – 38 mm
 - * depth – 20 mm
 - * rod length – 155 mm
- Weight: 14 gr.
- Resistance – 25C; 77F = 50 K Ω
- Thermal Time Rate – 15 seconds
- Range - -40°C to 110°C ; 39°F to 230°F
- Measurement accuracy - $\pm 3\%$
- Thermistor type - NTC
- Standard – UL94V-0
- Color – white
- Plastic - ABS

Wiring Diagram



GHU Room/Duct Sensor

General purpose stand-alone humidity and temperature sensor for room or duct.

The GHU Room or Duct sensors are general purpose, all-in-one™ sensors for both temperature and humidity.

Humidity measurement is given as a proportional output, 0-10VDC while temperature reading may be given in one of two ways:

1. Normally via a thermistor (for controllers that do not offer 0-10VDC temperature inputs- temperature sensor used must be Meitav-tec type)
2. As a proportional signal (0-10VDC)

With wide temperature and humidity ranges, the GHU Room / Duct sensors are practical and ideal solutions for all room and duct applications.

GHU Room Sensor



GHU Duct Sensor

0-10V
OUTPUT

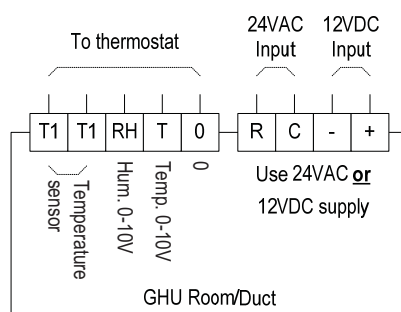
°C / °F

HUMIDITY

Features

- Main Supply – 24VAC or 12VDC
- Proportional temperature output- 0-10VDC
- Proportional humidity output- 0-10VDC
- Temperature set point range from 0°C-60°C / 32°F-140°F (0-10VDC)
- Humidity set point range from 15%-90% RH (0-10VDC)

Wiring Diagram



TS-01 & TS-02 Temperature Sensors

TS-01 External Temperature Sensor, 80 cm cable

TS-02 External Temperature Sensor, 180 cm cable



Features

- Cable 2 wire – AWG 24 BLACK
- Thermistor color – silver or brass
- Dims of Thermistor 1" x 0.25" (2.5 cm x 0.6 cm)
- Resistance – 25C; 77F = 50 K Ω
- Thermal Time Rate – 15 seconds
- Range - -40°C to 110°C ; 39°F to 230°F
- Thermistor type - NTC

TS-05 & TS-06 Temperature Sensors

TS-05 External Temperature Sensor, 80 cm cable

TS-06 External Temperature Sensor, 300 cm cable

Thermistor is coated with isolating plastic.
Other technical specifications are the same
as TS-01 & TS-02.



RS-01 Temperature Sensor

External Temperature Sensor in a decorative box

External temperature sensor in a wall mount, decorative box. Suitable for all Meitav-tec's thermostats



Features

- Cable 2 wire – AWG 24 BLACK
- Dimensions – 1.8" x 1.5" (46 mm x 38 mm)
- Resistance – 25C; 77F = 50 K Ω
- Thermal Time Rate – 15 seconds
- Range - -40°C to 110°C ; 39°F to 230°F
- Thermistor type - NTC

RS-02 Average Temperature Sensor

Average Temperature Sensor in a decorative box

- Ideal for wide, open space hall where temp. differs in each location
- 2 units required for average measurement of Temperature
- Provides average room temperature, using external sensors, installed in two different locations
- Each temperature sensor installed in a wall-mount, decorative box
- Suitable for all Meitav-tec's thermostats
- Technical Specifications are the same as RS-01.



RT03 Remote Control

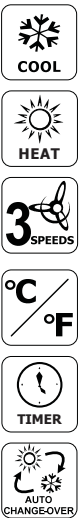
Hand held remote control unit, for Meitav-tec's thermostats and controllers.

An infra-red remote controller, suitable for Meitav-tec's thermostats and receivers. Easy-to-use, with big LCD and a large temperature digit display.



Features

- On/Off
- Modes: Cool / Heat / Auto-change-over / Fan only
- Fan speeds: High / Medium / Low / Auto
- Temperature set point
- °C or °F temperature scale
- Timer - Start / Stop
- Real time clock & day
- 2 X AAA battery operated
- Elegant Housing for wall mounting
- Available in black or white panel



RT04 Remote Control

Hand-held remote control for programmable thermostats, with USA weekly program

An infra-red, remote controller, suitable for programmable thermostats. Easy-to-use, with big LCD and a large temperature digit display, °F display.



Features

- On/Off
- Modes: Cool / Heat / Auto change-over / Fan only
- Temperature set-point
- °F temperature scale
- 2 or 4 periods a day, each with a different set point
- Up to 6 different weekly programs
- Timer
- Real time clock
- 2 X AAA battery operated
- Available in black or white panel



RT05 Remote Control

Hand-held remote control for programmable thermostats, with European weekly program

An infra-red, remote controller, suitable for programmable thermostats. Easy-to-use, with big LCD and a large temperature digit display, °C display.



Features

- On/Off
- Modes: Cool / Heat / Auto change-over / Fan only
- Temperature set-point
- °C temperature scale
- Up to 4 start /stop a day, each with a different set point
- Up to 6 different weekly programs
- Timer
- Real time clock
- 2 X AAA battery operated
- Available in black or white panel

RT40/41 Remote Control

Hand-held remote control for stand-alone dampers, for Meitav-tec's receivers

An infra-red remote controller, suitable for stand-alone dampers. Easy-to-use, with big LCD and a large temperature digit display.



Features

- On/Off
- Modes: Cool / Heat
- Temperature set point
- Timer - Start / Stop, hour & minute display
- 2 X AAA battery operated
- °C or °F temperature scale
- Real time clock & day
- Elegant Housing for wall mounting
- Available in black or white panel

PS-102

230VAC – 12VDC, Power Supply

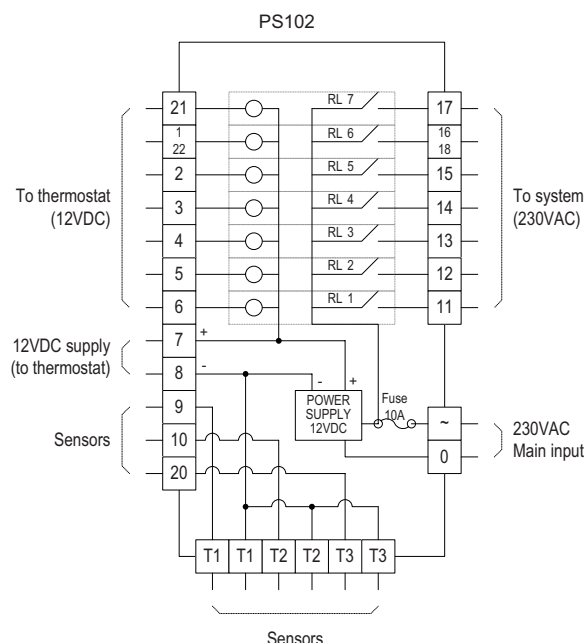
The PS-102 is a power supply for HVAC system. It converts 230VAC to 12VDC for thermostat operation and through relays, transfers commands from thermostat to operate 230VAC HVAC system.

It offers 7 relay outputs to control HVAC system and 3 inputs for Temperature Sensors.

Features

- Main Supply - 230VAC
- 7 x 230VAC outputs – each 6A (resistive), or 3A (inductive), total $\leq 9A$
- 7 x 12VDC inputs
- 3 inputs for temperature sensors
- Inputs & outputs are terminal blocks, screw connector
- PS-102 is supplied in a plastic enclosure box

Wiring Diagram



PS-24

24VAC - 230VAC –Power Supply

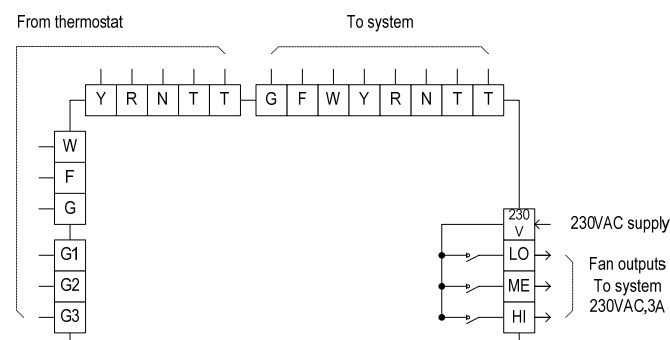
Ideal for 230VAC Fan operation in 24VAC HVAC systems

The PS-24 is a power supply for HVAC system. It converts 24VAC to 230VAC thorough relays for fan operation and transfers commands from thermostat to operate 24VAC HVAC system. All in all, it offers 3 relay 230VAC outputs to control HVAC fan system and 4 x 24VAC inputs, directly transferred to 24VAC outputs.

Features

- Main Supply - 230VAC
- 3 x 230VAC outputs + 4 x 24VAC outputs
- 7 x 24VAC inputs + 1 Temperature input
- Inputs & outputs are terminal blocks, screw connector
- PS-24 is supplied in a plastic enclosure box

Wiring Diagram



PS-104

230VAC – 12VDC, Power Supply

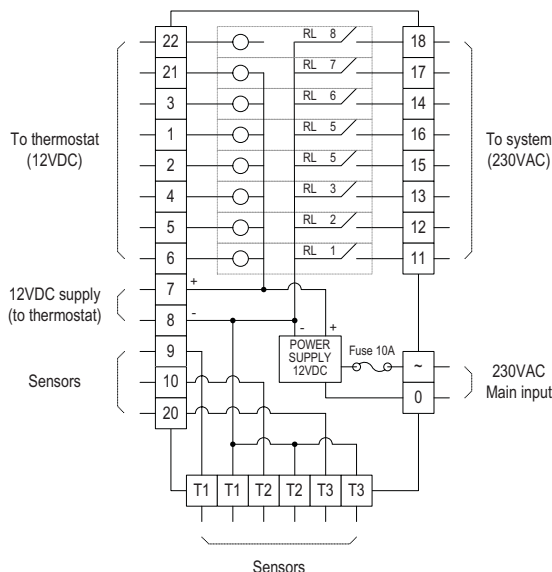
The PS-104 is a power supply for HVAC system. It converts 230VAC to 12VDC for thermostat operation and through relays, transfers commands from thermostat to operate HVAC system.

It offers 8 relay outputs to control HVAC system and 3 inputs for Temperature Sensors.

Features

- Main Supply - 230VAC
- 8 x 230VAC outputs – each 6A (resistive), or 3A (inductive), total $\leq 9A$
- 7 x 12VDC inputs
- 3 inputs for temperature sensors
- Inputs & outputs are terminal blocks, screw connector

Wiring Diagram



PS-600

230VAC – 24VDC, Power Supply

Ideal for 230VAC HVAC units operated by 24VAC

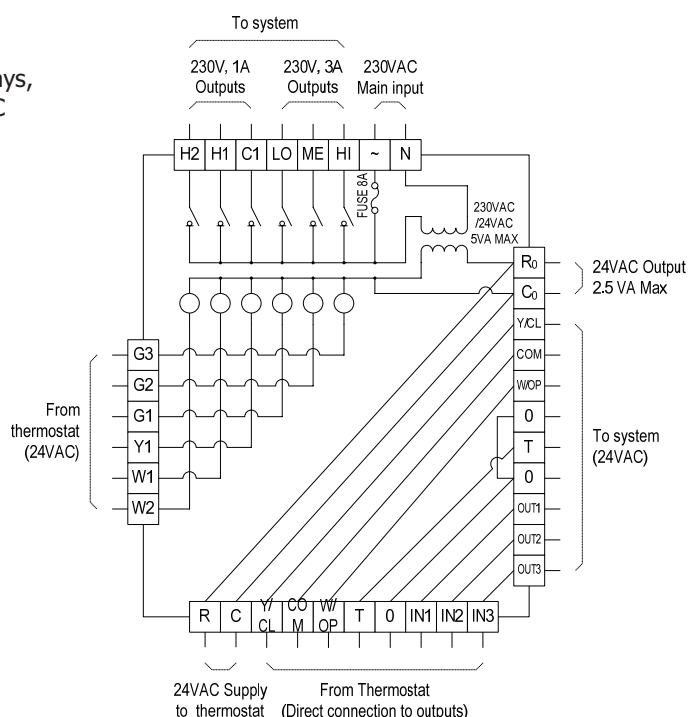
The PS-600 is a power supply for HVAC system. It converts 230VAC to 24VDC for thermostat operation and through relays, transfers commands from thermostat to operate the 230VAC HVAC system.

It offers 6 relay outputs to control HVAC system controllers

Features

- Main Supply - 230VAC
- 6 x 230VAC outputs – 3 outputs 3A and 3 outputs 1A
- 6 x 24VDC inputs
- 10 direct input-output connections low Voltage (24V)
- Inputs & outputs are terminal blocks, screw connector
- PS-600 is supplied in a plastic enclosure box

Wiring Diagram



CTU

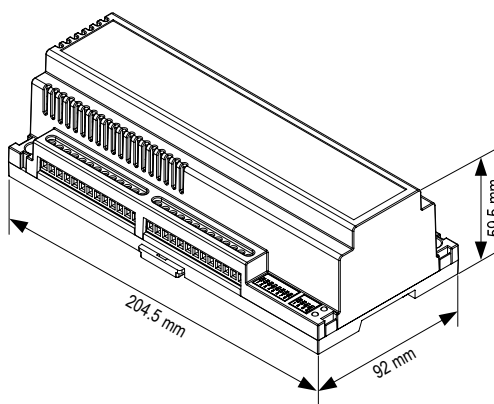
Communication Controller

230VAC, 115VAC, 24VAC



Specifications

Temperature Range		Accuracy	+1°
Weight	0.545 Kg	Plastic	PC/ABS
Color	gray	Flammability	UL94V-0



ERT

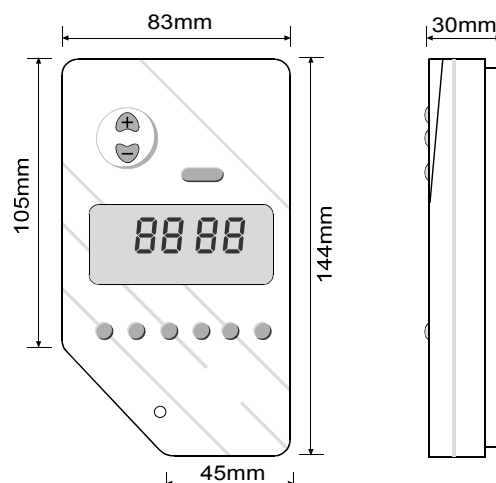
Wall mount thermostat

230VAC



Specifications

Temperature Range	10°C ÷ 30°C , 50°F ÷ 86°F	Accuracy	±1°C
Weight	0.25 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0
Color	white	Temperature Input	50K@25°C



ETN (non programmable)

Wall mount thermostat/panel

24VAC, 12VDC



Colors



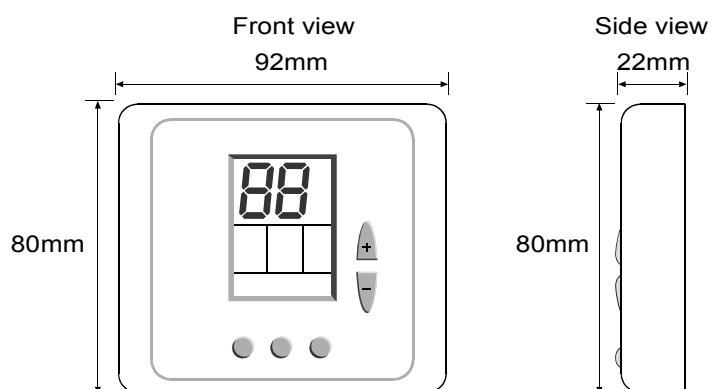
white silver black gold others

Accessories

TS01	RS01	RS02	WP4	RS03
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Specifications

Temperature Range	10°C ÷ 30°C, 50°F ÷ 86°F	Accuracy	±1°C
Weight	0.25 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0
Color	white, silver, black, others	Temperature Input	50K@25°C



ETN (programmable)

Wall mount thermostat/panel

24VAC



Colors



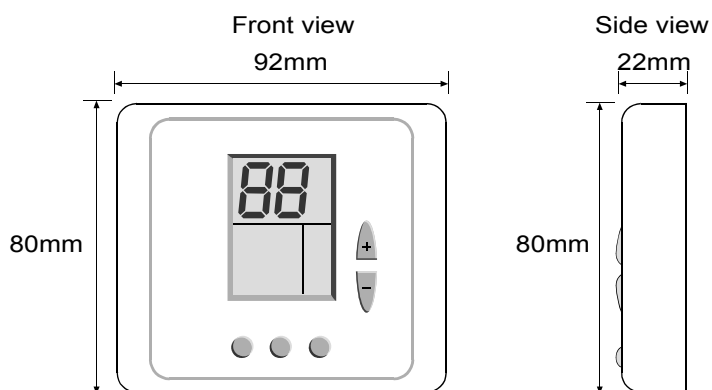
white silver gold black others

Accessories

TS01	RS01	RS02	WP4	RT03
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Specifications

Temperature Range	5°C ÷ 35°C	Accuracy	±1°C
Weight	0.125 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0
Color	white, silver, black, others	Temperature Input	50K@25°C



FMH

Flush Mount thermostat/panel

24VAC, 220VAC, 110VAC



Colors

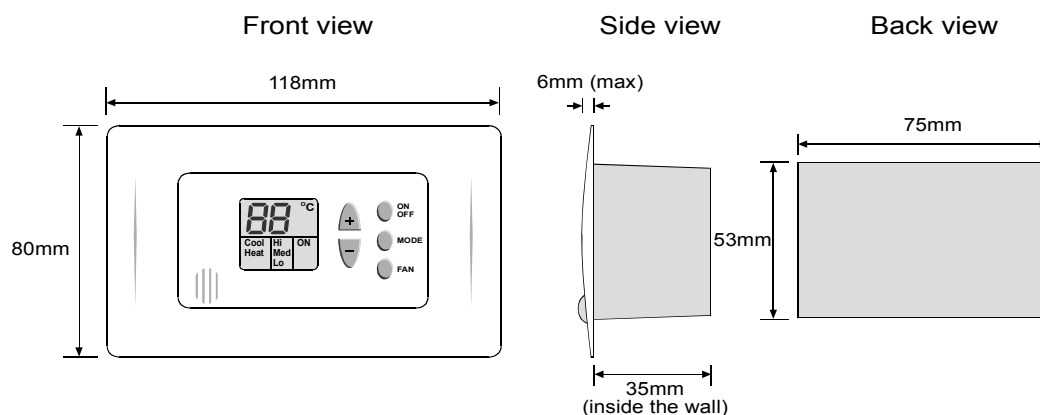


Accessories

TS01	RS01	RS02	DT02	RT03
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Specifications

Temperature Range	10°C ÷ 30°C , 50°F ÷ 86°F	Accuracy	±1°C
Weight	0.200 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0
Color	white, silver, black, others	Temperature Input	50K@25°C



FMT (non programmable)

Flush mount vertical thermostat/panel

24VAC , 220VAC, 110VAC



Accessories

TS01

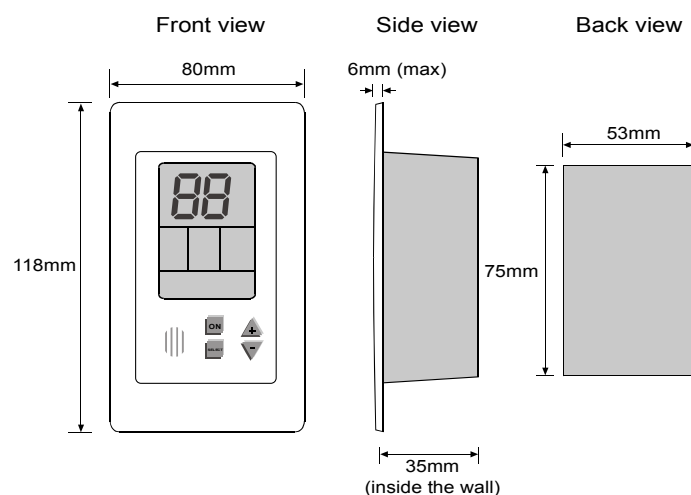
RS01

RS02

RT03

Specifications

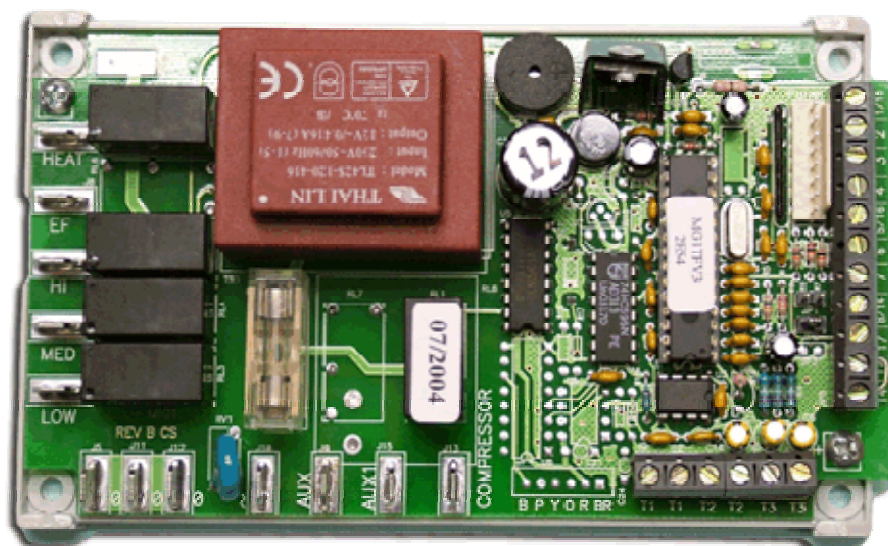
Temperature Range	10°C ÷ 30°C, 50°F ÷ 86°F	Accuracy	±1°C / ±1.5°F
Weight	0.200 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0
Color	white	Temperature Input	50K@25°C / 77°F



MIGA

Main Controller ALL-IN-ONE™

230VAC



Accessories

ETN-Miga	FMH-Miga	TS01	MP101	M1P	RT03
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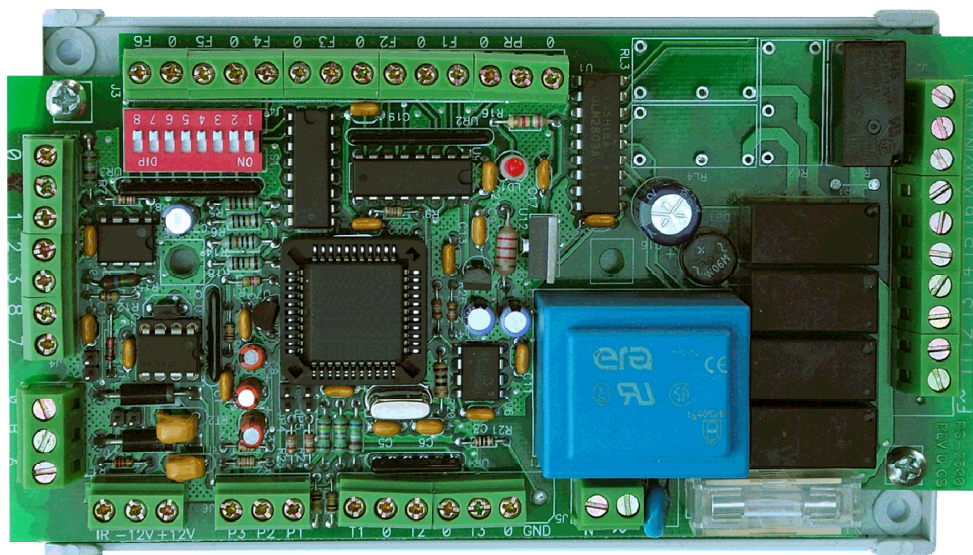
Specifications

Temperature Range	10°C ÷ 30°C	Accuracy	±1°C
Weight	0.400 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0

PS (Communication Controller)

Main Controller

230VAC, 115VAC, 24VAC



Accessories

FMH-X500	IRP-X500	FMT-X500	ETN-X500	RS01	RS02	RS03
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Specifications

Temperature Range	10°C ÷ 30°C	Accuracy	±1°C
Weight	0.340 Kg	Plastic	PC/ABS
Scale	°C / °F	Flammability	UL94V-0

TED (without display)

Wall mount, mechanical thermostat

220VAC, 24VAC

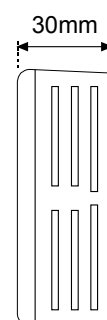
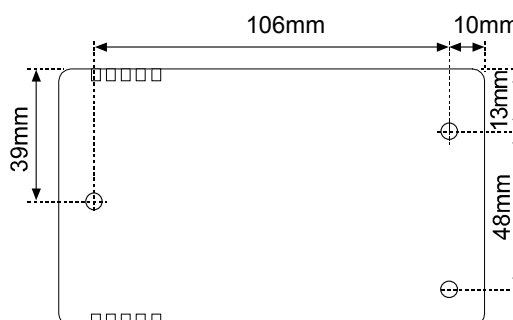
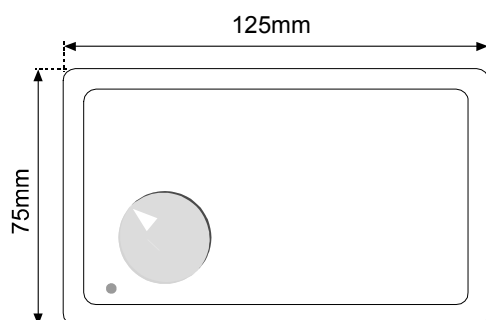


Accessories

TS01	RS01	RS02	WP1
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Specifications

Temperature Range	10°C ÷ 30°C	Accuracy	±1°C
Weight	0.150 Kg	Plastic	PC/ABS
Scale	°C	Flammability	UL94V-0
Color	white	Temperature Input	Thermistor 50K@25°C



TED (with display)

Wall mount, mechanical thermostat
220VAC, 24VAC



Accessories

TS01	RS01	RS02	WP1
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Specifications

Temperature Range	10°C ÷ 30°C	Accuracy	±1°C
Weight	0.150 Kg	Plastic	PC/ABS
Scale	°C	Flammability	UL94V-0
Color	white	Temperature Input	Thermistor 50K@25°C